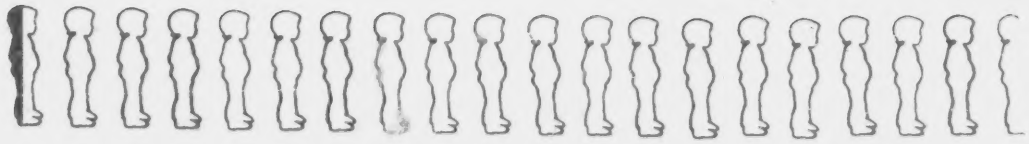
1977 utah vital statistics



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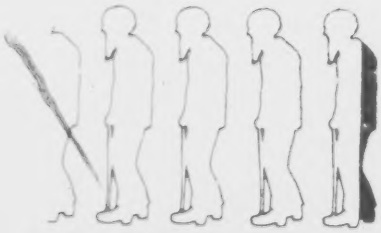

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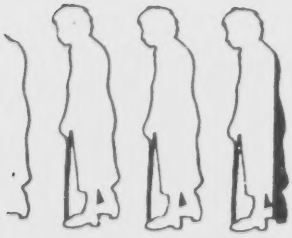

state of utah
department of health
bureau of health statistics

UTAH VITAL STATISTICS

ANNUAL REPORT

1977

Utah State Department of Health
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Salt Lake City, Utah 84103

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January 1980

PREFACE

This report contains vital statistics data for Utah events that occurred in 1977. The source of these data is the approximately 50,000 certificates and transcripts registered for 1977 in the Bureau of Health Statistics of the Utah State Department of Health.

The purpose of this report is to provide needed data for planners, students, researchers, public officials, private businesses and the general public. Data are presented for the State of Utah, the multi-county districts, and each of its counties. Marriage and divorce statistics are provided as totals in this report. Another report of the Bureau treats them more extensively.

The initial part of this report contains a narrative section with tables and charts to provide some analyses and explanation of these data. This is followed by a section of reference tables with more detailed information. A listing of other tables omitted from this report appears at the end of the table of contents. These tabulations will be provided upon request to the Bureau. The last section of the report is the Technical Appendix with information on the sources, definitions, quality, and limitations of the data.

This publication was prepared by the staff of the Center for Health Statistics under the supervision of Marvin Levy, Deputy Director of the Bureau of Health Statistics. The statistical tabulations and analyses were prepared by Gery E. Moore, Statistician. Marie Wonnacott prepared the manuscript for printing.

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INTRODUCTION

AN OVERVIEW OF UTAH'S VITAL STATISTICS

The estimated population of Utah for July 1, 1977 was 1,270,000 persons. This compares with a 1976 figure of 1,232,000, an increase of 3.1 percent. During the same period of time the U.S. population increased 0.7 percent.

There were 37,956 live births recorded to Utah residents. This represented a birth rate of 29.9 live births per 1,000 population. The corresponding U.S. rate was 15.4.[1] [2]

There were 7,612 Utah resident deaths, resulting in a mortality rate of 6.0 deaths per 1,000 population. The corresponding rate for the U.S. was 8.8.[3]

The rate of natural increase in Utah was 23.9 persons per 1,000 population. The rate nationally was 6.6 persons per 1,000 population.

There were 381 Utah residents who died in infancy. This represented an infant mortality rate of 10.0 infant deaths per 1,000 live births. The corresponding U.S. rate was 14.1. Of these 381 infants, 255 died during the neonatal period, under 28 days of age. The neonatal mortality rate was 6.7 deaths per 1,000 live births. The neonatal mortality rate nationally was 9.9 per 1,000 live births.[3]

There were 318 stillbirths to Utah residents, representing a fetal mortality rate of 8.4 fetal deaths per 1,000 live births in 1977. The latest fetal mortality rate for the U.S. was 10.5 in 1976.

There were four resident females who died of maternal-related conditions. This represents a maternal mortality rate of 10.5 deaths per 100,000 live births. The corresponding U.S. rate was 11.2.

---

[1]All rate comparisons with the United States are for 1977 unless otherwise indicated.

[2]Monthly Vital Statistics Final Natality Statistics, 1977 (PHS) 79-1120, vol. 27, no. 11 (National Center for Health Statistics, Hyattsville, Maryland 20782), February 5, 1979.

[3]Monthly Vital Statistics, Final Mortality Statisticss, 1977 (PHS) 77-1120, vol. 28, no. 1 (National Center for Health Statistics, Hyattsville, maryland 20782) March 11, 1979

There were 15,098 marriages performed and 6,947 divorces and annulments granted in Utah in 1977. This gave Utah a marriage and a divorce rate of 11.9 and 5.5 per 1,000 population, respectively. More detailed data will be found in the annual report, Utah Marriage and Divorce 1977.

The trend of Utah's vital events since 1935 is presented in Tables 2 and 3 and Figure 1.

The national birth rate has remained relatively constant since 1972; however, the Utah rate is increasing and is consistently higher than the national rate. Two factors account for the difference in these rates: the first is the slightly higher percentage of females in the childbearing ages, 15-44, in Utah compared to the United States (Table 1); and second, residents of Utah apparently desire to have large families. The average number of children ever born to women ever married in Utah, ages 15-44, was 3.9 compared to the average of 3.1 in the United States.[1]

TABLE 1

PERCENTAGE DISTRIBUTION OF FEMALES BY AGE GROUPS: UTAH AND UNITED STATES, 1977

	Utah	U.S.*
Total	100.0	100.0
Under 15	29.9	27.3
15-44	45.0	40.7
45-64	16.6	20.9
65+	8.5	11.2

*U.S. Bureau of the Census, Current Population Reports, Series P-25, no. 493, "Projections of the Population of the United States, by Age and Sex: 1972 to 2020," U.S. Government Printing Office, Washington, D.C., 1972.

Utah's population has a different age distribution than the United States (see Figure 2). This difference partially accounts for the differences in the crude birth and death rates. These rates are illustrated in the graphs in Figure 3 for the years 1955-1977.

---

[1]General Social and Economic Characteristics, U.S. Bureau of the Census, Census of Population; 1970, Final Report PC(1)-C 46, Utah, February 1972, pages 46-119.

TABLE 2

STATISTICAL SUMMARY (ESTIMATED MIDYEAR POPULATION, LIVE BIRTHS, DEATHS MATERNAL DEATHS, INFANT DEATHS, FETAL DEATHS, MARRIAGES, AND DIVORCES AND ANNULMENTS): UTAH, 1935-1977

Year	Estimated[1] Midyear Population	Live Births	Deaths	Maternal Deaths	Infant Deaths	Fetal Deaths	Marriages	Divorces and Annulments
1977	1,270,000	37,956	7,612	4	381	318	15,098	6,947
1976	1,232,000	35,310	7,472	7	414	275	14,693	6,170
1975	1,203,000	31,667	7,519	6	415	257	14,858	6,131
1974	1,179,000	29,946	7,380	2	364	286	15,164	5,670
1973	1,150,000	27,978	7,573	5	354	219	14,840	5,137
1972	1,128,000	26,911	7,323	12	360	263	13,911	4,876
1971	1,095,000	27,552	7,245	2	382	258	12,497	4,419
1970	1,066,000	26,969	7,063	6	405	298	11,938	3,912
1969	1,047,000	24,232	6,791	4	382	238	11,633	3,841
1968	1,029,000	23,193	6,882	3	410	240	11,558	3,390
1967	1,019,000	22,948	6,516	3	383	241	10,220	3,288
1966	1,009,000	22,601	6,850	5	414	222	9,623	3,090
1965	991,000	22,261	6,672	5	419	224	8,736	2,872
1964	978,000	23,844	6,404	3	482	237	8,525	2,895
1963	974,000	24,952	6,544	4	464	288	8,194	2,659
1962	958,000	26,213	6,325	9	525	290	7,651	2,480
1961	936,000	26,590	6,081	7	538	263	7,401	2,360
1960	900,000	26,272	5,997	5	517	276	7,119	2,167
1959	870,000	25,645	5,879	10	514	321	6,734	2,179
1958	845,000	25,384	5,809	10	564	325	6,600	2,002
1957	826,000	26,064	5,696	8	561	317	6,672	1,565
1956	809,000	25,449	5,579	7	571	320	6,657	2,189
1955	783,000	25,103	5,382	7	507	330	6,294	2,059
1954	750,000	24,905	5,294	6	506	325	6,295	2,140
1953	739,000	24,147	5,394	5	565	301	6,926	2,433
1952	724,000	24,236	5,495	11	590	313	6,752	2,331
1951	706,000	22,853	5,204	10	565	276	6,843	2,271
1950	696,000	21,535	5,048	7	506	256	7,110	2,107
1949	671,000	20,984	4,788	5	527	297	6,402	2,166
1948	653,000	20,869	5,070	12	550	298	7,327	2,199
1947	636,000	21,724	4,996	17	545	303	7,965	2,927
1946	638,000	18,220	4,785	25	496	293	9,781	3,434
1945	591,000	15,680	4,859	21	488	268	7,034	2,651
1944	605,000	15,180	4,957	22	548	248	6,262	2,995
1943	631,000	17,161	5,054	27	539	275	6,705	1,982
1942	575,000	15,822	4,849	27	522	281	6,081	1,433
1941	551,000	13,548	4,518	26	402	268	7,263	1,360
1940	554,000	13,347	4,845	36	539	253	8,254	1,500
1939	543,000	13,007	4,712	40	544	278	([2])	([2])
1938	535,000	13,214	4,853	40	610	280	([2])	([2])
1937	529,000	12,693	4,989	42	525	262	([2])	([2])
1936	527,000	12,551	5,126	55	661	255	([2])	([2])
1935	526,000	12,695	5,066	59	625	274	([2])	([2])

[1]The population estimates for 1935-1959 have been revised to agree with U.S. census estimates and will not agree with prior reports in this series.

[2]Information not available.

TABLE 3

COMPARISON OF VITAL STATISTICS RATES: U.S.* AND UTAH, 1950-1977

Year	Birth		Death		Natural Increase		Maternal Death		Infant Death		Fetal Death		Marriage		Divorce and Annulment	
	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah
1977	14.8	29.9	8.8	6.0	6.0	23.9	0.1	0.1	14.1	10.0	N.A.	8.3	10.1	11.9	5.0	5.5
1976	14.7	28.7	8.9	6.1	5.8	22.6	0.1	0.2	15.1	11.7	N.A.	7.8	9.9	11.9	5.0	5.0
1975	14.8	26.3	9.0	6.3	5.8	20.1	0.1	0.2	16.1	13.1	N.A.	8.1	10.0	12.4	4.8	5.1
1974	15.0	25.4	9.1	6.3	5.9	19.3	0.1	0.1	16.7	12.2	11.5	9.6	10.5	12.9	4.6	4.8
1973	14.9	24.3	9.4	6.6	5.5	17.7	0.2	0.2	17.7	12.7	12.2	7.8	10.9	12.9	4.4	4.5
1972	15.6	23.9	9.4	6.5	6.2	17.4	0.2	0.4	18.5	13.4	12.7	9.8	11.0	12.3	4.0	4.2
1971	17.2	25.2	9.3	6.6	7.9	18.6	0.2	0.1	19.1	13.9	13.4	10.8	10.6	11.4	3.7	3.8
1970	18.7	25.3	9.5	6.6	9.2	18.7	0.2	0.2	20.0	15.0	14.2	11.0	10.6	11.2	3.5	3.7
1969	17.8	23.1	9.5	6.5	8.3	16.6	0.2	0.2	20.9	15.8	14.1	9.8	10.6	11.1	3.2	3.7
1968	17.5	22.5	9.7	6.7	7.8	15.7	0.2	0.1	21.8	17.7	15.8	10.3	10.4	11.2	2.9	3.3
1967	17.8	22.5	9.4	6.4	8.4	16.0	0.3	0.1	22.4	16.7	15.6	10.5	9.7	10.0	2.6	3.2
1966	18.4	22.4	9.5	6.8	8.9	15.6	0.3	0.2	23.7	18.3	15.7	9.8	9.4	9.5	2.5	3.1
1965	19.4	22.4	9.4	6.7	10.0	15.7	0.3	0.2	24.7	18.8	16.2	10.1	9.3	8.8	2.5	2.9
1964	21.0	24.4	9.4	6.5	11.6	17.9	0.3	0.1	24.8	20.2	16.4	9.9	9.0	8.7	2.4	3.0
1963	21.7	25.6	9.5	6.7	12.2	19.0	0.4	0.2	25.2	18.6	15.8	11.4	8.8	8.4	2.3	2.7
1962	22.4	27.3	9.4	6.6	13.0	17.9	0.4	0.3	25.3	20.0	15.9	11.1	8.5	8.0	2.2	2.6
1961	23.3	28.4	9.3	6.5	14.0	20.8	0.4	0.3	25.3	20.2	16.1	9.9	8.5	7.9	2.3	2.5
1960	23.7	29.2	9.5	6.7	14.2	22.9	0.4	0.2	26.0	19.6	16.1	10.4	8.5	7.9	2.2	2.4
1959	24.0	29.1	9.3	6.7	14.7	22.4	0.4	0.4	26.4	20.0	16.2	12.5	8.5	7.6	2.2	2.5
1958	24.3	29.6	9.4	6.8	14.9	22.8	0.4	0.4	27.1	22.2	16.5	12.8	8.4	7.7	2.1	2.3
1957	25.0	31.0	9.5	6.8	15.5	24.2	0.4	0.3	26.3	21.5	16.3	12.2	8.9	7.9	2.2	1.9
1956	24.9	30.8	9.3	6.8	15.6	24.0	0.4	0.3	26.0	22.4	16.5	12.6	9.5	8.1	2.3	2.7
1955	24.6	31.4	9.2	6.7	15.4	24.7	0.5	0.3	26.4	20.2	17.1	13.1	9.3	8.7	2.3	2.6
1954	24.9	32.6	9.1	6.9	15.8	25.7	0.5	0.2	26.6	20.3	17.5	13.0	9.2	8.3	2.4	2.8
1953	24.7	32.2	9.4	7.2	15.3	25.0	0.6	0.2	27.8	23.4	17.8	12.5	9.8	9.2	2.5	3.2
1952	24.7	33.2	9.4	7.5	15.3	25.7	0.7	0.4	28.4	24.3	18.3	12.9	9.9	9.2	2.5	3.2
1951	24.5	32.2	9.5	7.3	15.0	24.9	0.8	0.4	28.4	24.7	18.8	12.1	10.4	9.6	2.5	3.2
1950	23.6	30.9	9.5	7.3	14.1	23.6	0.8	0.3	29.2	23.5	19.2	12.3	11.1	10.2	2.6	3.0

*Monthly Vital Statistics Report Final Natality Statistics, 1977 (PHS) 78-1120, vol. 27, no. 11 (National Center for Health Statistics, Hyattsville, Maryland 20782), February 5, 1979.

FIGURE 1. TRENDS IN POPULATION, BIRTHS, DEATHS AND NATURAL INCREASE: UTAH, 1935-1977

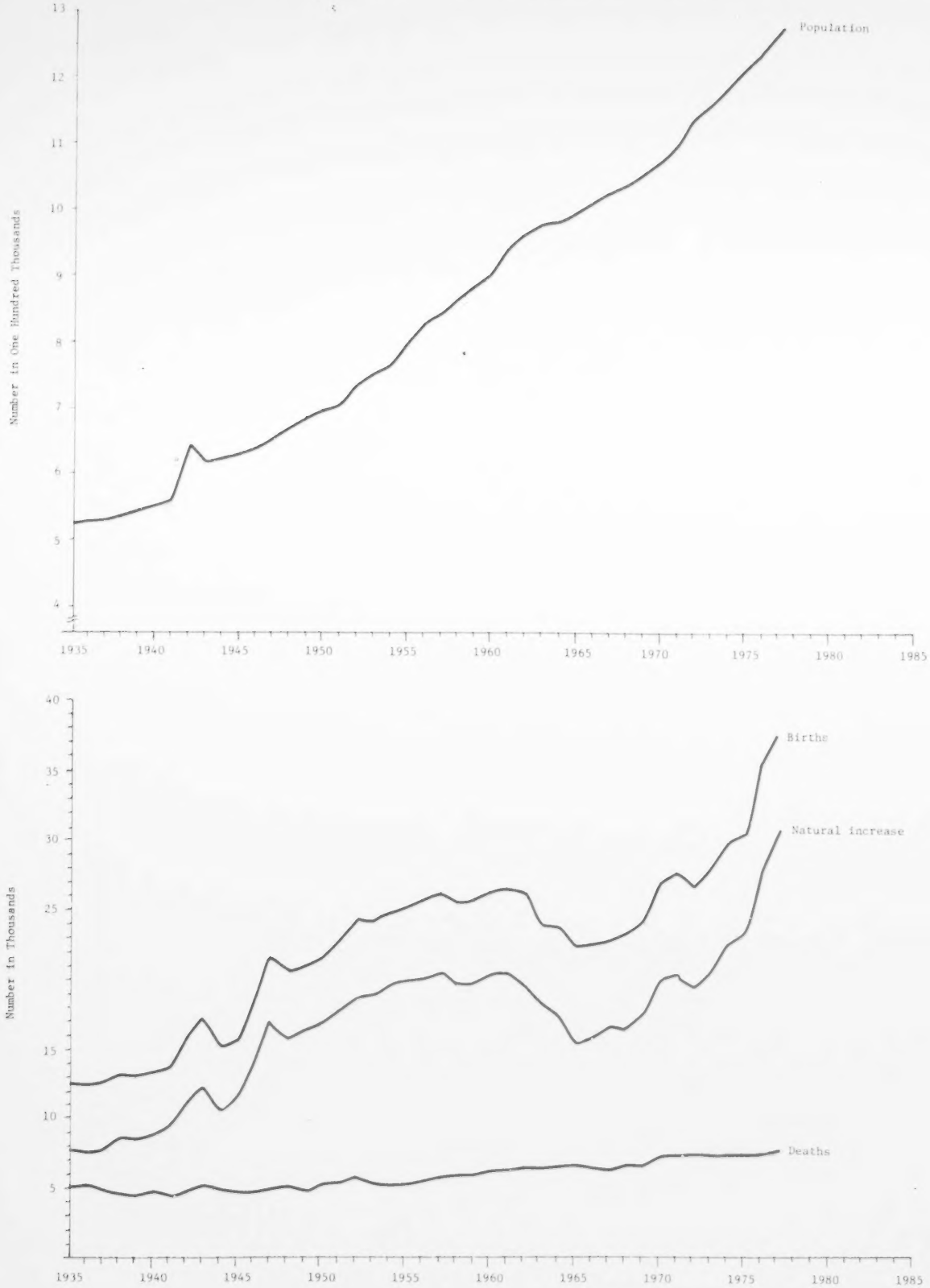


FIGURE 2. POPULATION BY AGE AND SEX: (PERCENTAGE DISTRIBUTION)
UTAH AND U.S., 1975

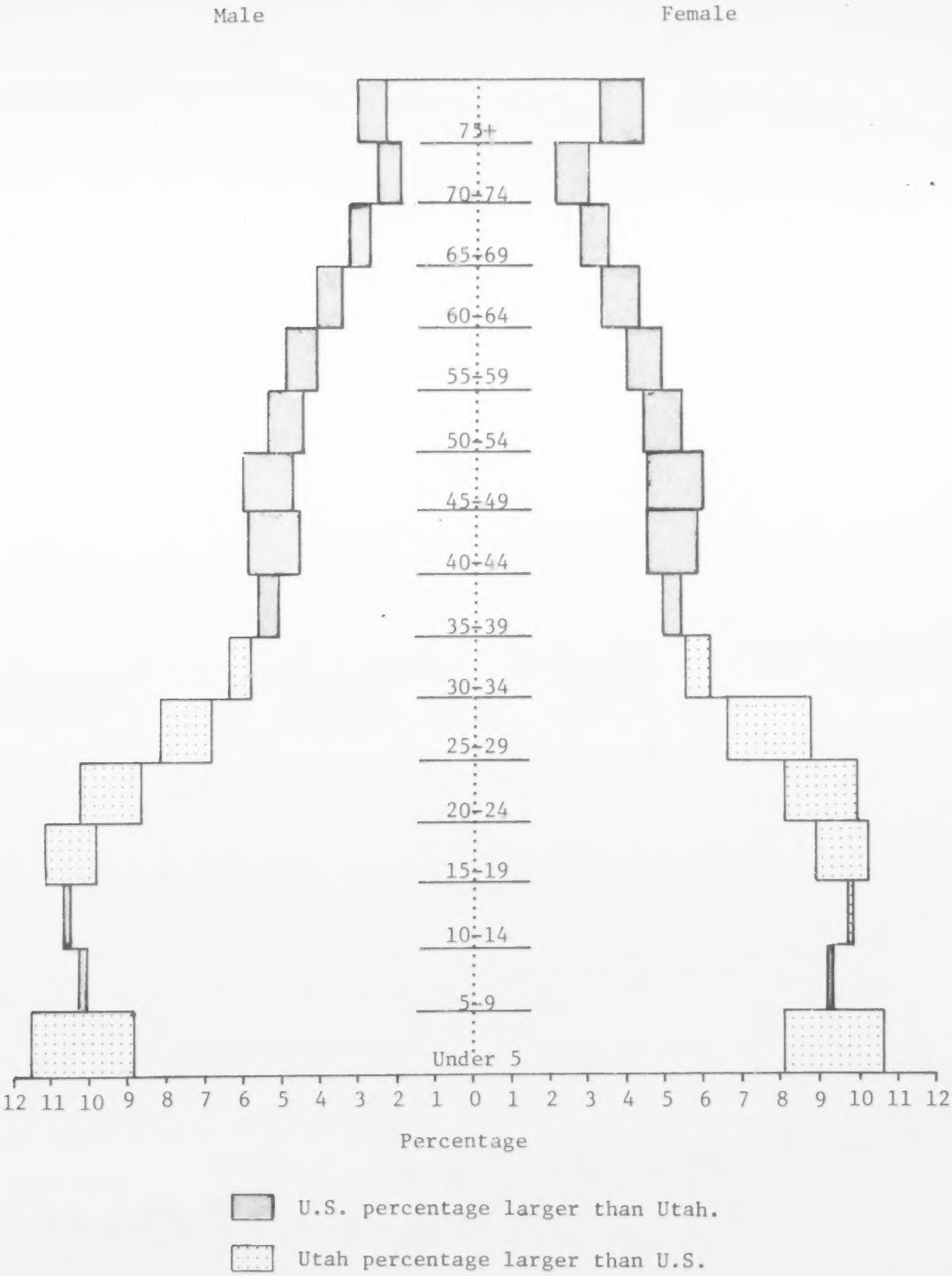
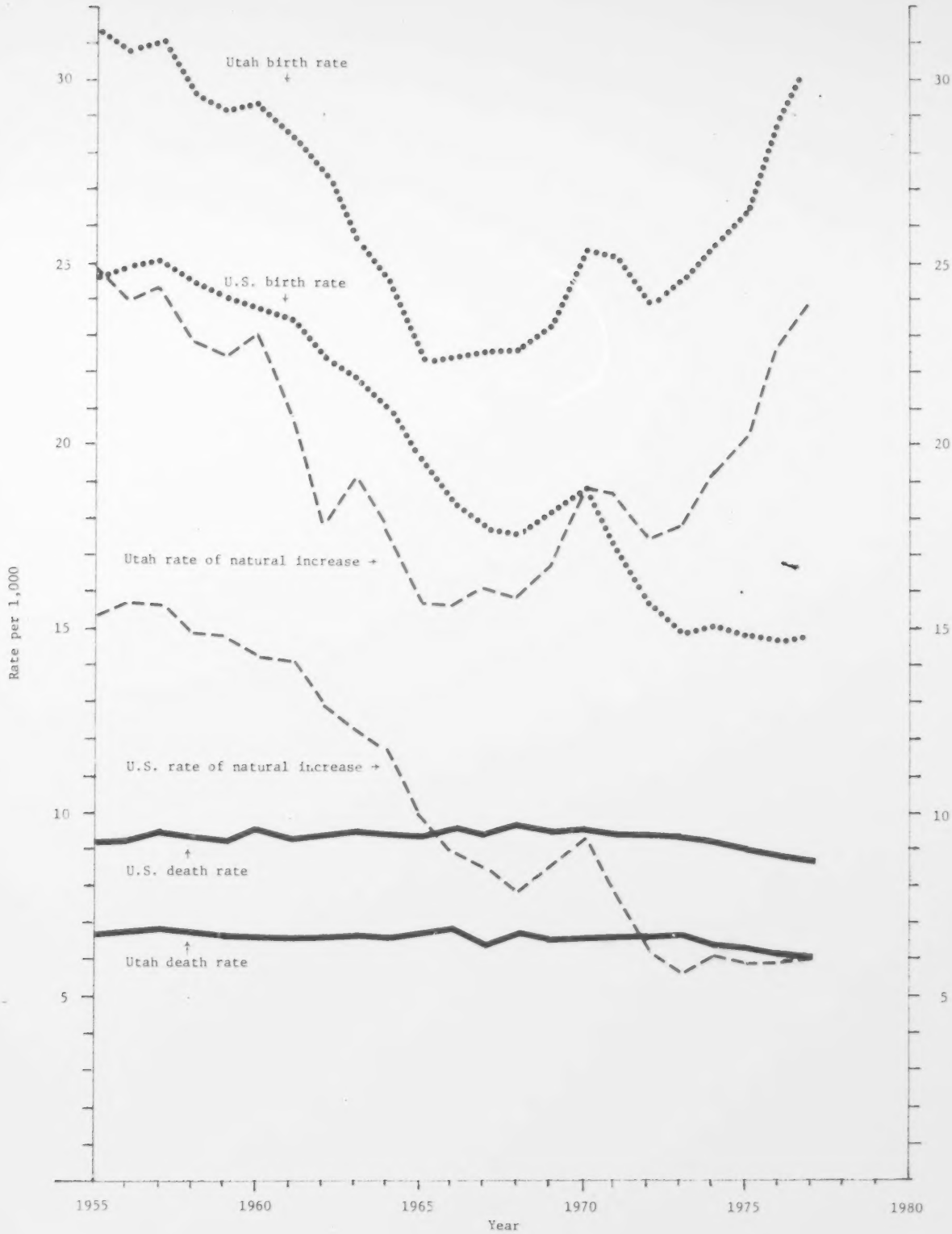


FIGURE 3. BIRTH RATE, DEATH RATE, AND RATE OF NATURAL INCREASE: U.S. AND UTAH, 1955-1977



Between 1935 and 1977, Utah's population increased by 141 percent. During this time, the annual number of births has nearly tripled to 37,956, an increase of 199 percent in 1977 over 1935. The lowest birth rate, 22.4, was recorded in both 1965 and 1966. Between 1950 and 1957 the birth rate exceeded 30 births per thousand population. Between 1950 and 1977 the death rate dropped 17.8 percent, from 7.3 to 6.0.

The 1977 maternal death rate was 67 percent less than it was in 1950. However, the number of occurrences is so few that comparisons between any given years have little significance. The infant death rate has dropped 57 percent, from 23.5 in 1950 to 10.0 per thousand live births in 1977.

Since 1950 the fetal death rate has dropped 33 percent. The highest fetal death rate, 29.6, was recorded in 1937; the lowest, 7.8, was recorded in 1973 and again in 1976.

The mortality rates over the past 20 years were fairly stable in both Utah and the United States, however, the mortality rate in Utah has been consistently lower than the national rate. This is due in large part to Utah's younger population. (After the age of 14, age-specific mortality rates increase with age.)

Table 4 compares the leading causes of death for Utah and the United States. The differences are due partly to the fact that Utah's population was "younger" than the population of the United States. Despite the differences in the ages of the two populations, the five leading causes of death in Utah were the same as the United States--diseases of the heart, malignant neoplasms, cerebrovascular disease, accidents, and influenza and pneumonia. Although the mortality rates per 100,000 population for four of these five causes of death were considerably lower in Utah, the percentage contribution for each to the total number of deaths was similar. Two differences are noted. One occurred in the leading cause, diseases of the heart. Nationally, over 37 percent of the deaths in 1976 were due to diseases of the heart; while in Utah, over 33 percent of the total deaths were due to heart diseases. The second difference occurred in deaths from accidents, where nationally 5.4 percent died of injuries suffered in accidents; in Utah 8.1 percent died of accidental injury.

TABLE 4

LEADING CAUSES OF DEATH: UNITED STATES AND UTAH, 1977

United States, 1977*				Utah, 1977			
Rank Cause	ICDA Code	Rate per 100,000 Population	Percentage of Deaths	Rank Cause	Number	Rate Per 100,000 Population	Percentage of Deaths
Total		878.1	100.0	Total	7,612	599.4	100.0
1. Diseases of the heart	390-398,402 404,410-429	332.3	37.8	1. Diseases of the heart	2,557	201.3	33.6
2. Malignant neoplasms	140-209	178.7	20.4	2. Malignant neoplasms	1,272	100.2	16.7
3. Cerebrovascular disease	430-438	84.1	9.6	3. Cerebrovascular disease	671	52.8	8.8
4. Accidents	E800-E949	47.7	5.4	4. Accidents	618	48.7	8.1
5. Influenza and pneumonia	480-486	23.7	2.7	5. Influenza and pneumonia	224	17.6	2.9
6. Diabetes mellitus	250	15.2	1.7	6. Suicide	180	14.2	2.4
7. Cirrhosis of the liver	571	14.3	1.6	7. Diabetes mellitus	172	13.5	2.3
8. Arteriosclerosis	440	13.3	1.5	8. Certain diseases of early infancy	152	12.0	2.0
9. Suicide	E950-E959	13.3	1.5	9. Other diseases of respiratory system	140	11.0	1.8
10. Certain diseases of early infancy	760-779	10.8	1.2	10. Congenital anomalies	135	10.6	1.8
11. Bronchitis, emphysema and asthma	490-493	10.3	1.2	11. Bronchitis, emph and asthma	118	9.3	1.6
12. Homicide	E960-E978	9.2	1.0	12. Arteriosclerosis	104	8.2	1.4
Residual			13.6	Residual	1,269		16.7

*Monthly Vital Statistics Report, Advanced Report, Final Mortality Statistics, 1977, vol. 28, no. 1, May 11, 1979, Hyattsville, Maryland, U.S. Dept. Health, Education, and Welfare, Public Health Service, Health Resources Administration, National Center for Health Statistics.

The county population estimates used in this publication were prepared by the Utah Population Work Committee. The age and sex population estimates were prepared by the staff of the Bureau of Health Statistics, Utah State Department of Health. The estimates for 1970 and 1977 are presented in Table 6. These age-sex population estimates will be used for determination of fertility and age-specific death rates presented in this report. Infant and fetal death rates are based on the number of live births per year.

Utah's 29 counties are divided into 7 multiplanning regions. The map in Figure 4 depicts these county groupings. Table 7 is a statistical summary by county of residence and by multicounty region of vital events occurring in Utah during 1977.

More than three-quarters of Utah's population live in the counties along the Wasatch Front (Davis, Salt Lake, Utah, and Weber) within a 50-mile radius of Salt Lake City. Table 5 contains a brief summary of the vital events of residents of the State, the four "urban counties," and the balance of the State, i.e., the rural counties.

TABLE 5

POPULATION, BIRTHS, DEATHS, AND RATES BY RURAL-URBAN COUNTY OF RESIDENCE: UTAH, 1977

	State	Urban Counties[1]	Rural Counties
Population estimates, 1977	1,270,000	971,000	299,000
Births	37,956	29,243	8,713
Birth rate[2]	29.9	30.1	29.1
Deaths	7,612	5,584	2,028
Death rate[2]	6.0	5.8	6.8
Infant deaths	381	268	113
Infant death rate[2]	10.0	9.2	13.0
Fetal deaths	318	257	61
Fetal death rate[2]	8.4	8.8	7.0

[1]Urban counties are Davis, Salt Lake, Utah, and Weber.

[2]Birth and death rates per 1,000 population; infant and fetal death rates per 1,000 live births.

TABLE 6

ESTIMATED POPULATION BY AGE AND SEX: UTAH, 1970, 1977

Age and Sex	1970 Census	1977
Total	1,059,273	1,270,000
Male	523,265	627,240
Female	536,008	642,760
Under 5	111,798	136,894
Male	57,300	69,912
Female	54,498	66,982
Under 1	24,672	37,956
Male	12,722	19,496
Female	11,950	18,460
1-4	87,126	98,938
Male	44,576	50,416
Female	42,548	48,522
5-14	240,751	248,660
Male	122,592	126,930
Female	118,159	121,730
15-24	214,466	256,450
Male	104,400	129,740
Female	110,066	126,710
25-34	129,961	200,030
Male	64,618	96,760
Female	65,343	103,270
35-44	107,548	125,170
Male	53,257	61,770
Female	54,291	63,400
45-54	100,983	110,910
Male	49,796	54,420
Female	51,187	56,490
55-64	76,205	94,030
Male	37,305	45,220
Female	38,900	48,810
65-74	48,175	61,550
Male	21,923	28,040
Female	26,252	33,510
75-84	23,389	29,740
Male	9,722	12,010
Female	13,667	17,730
85+	5,997	6,550
Male	2,352	2,430
Female	3,645	4,120

FIGURE 4

UTAH MULTICOUNTY ASSOCIATIONS OF GOVERNMENT

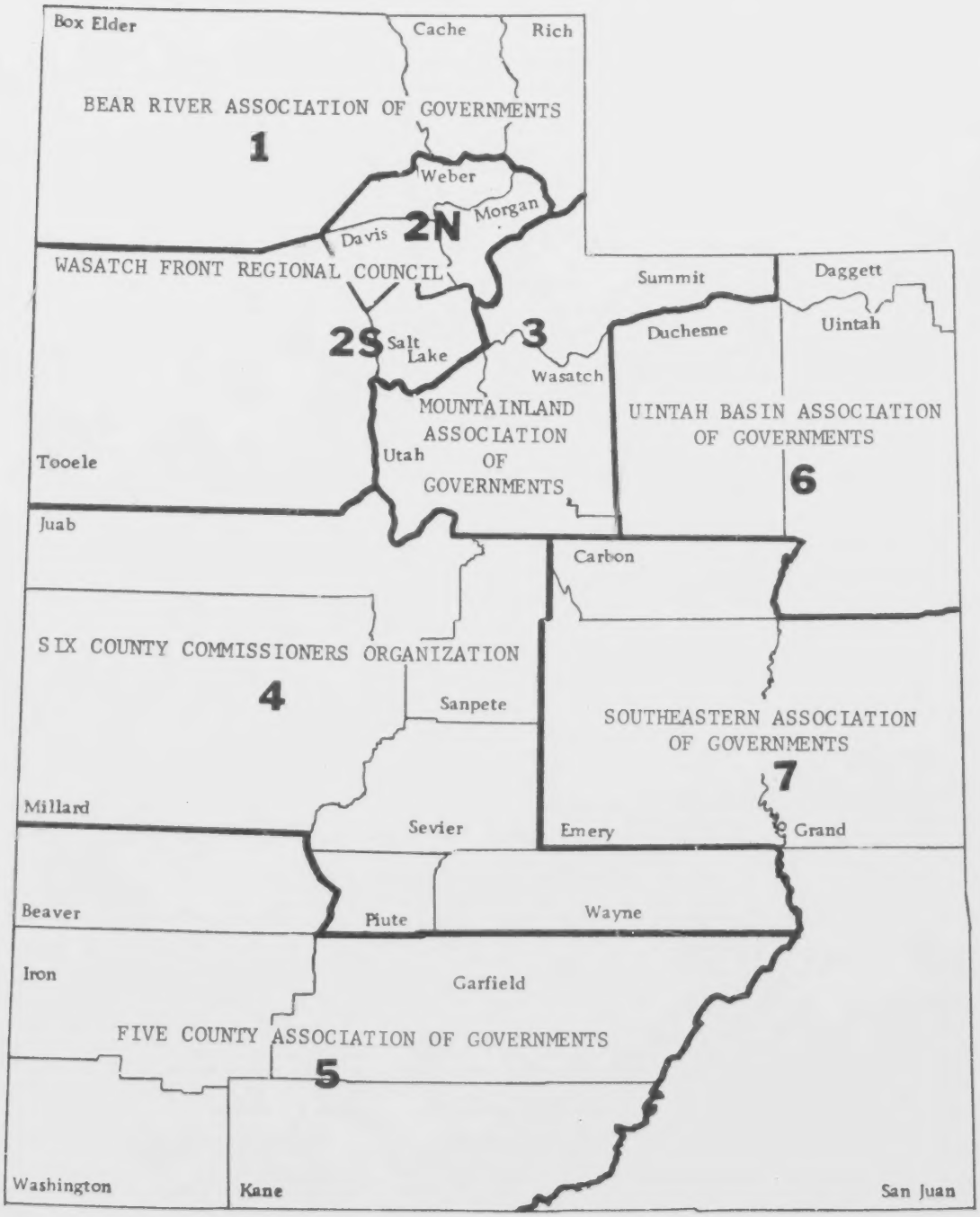


TABLE 7

STATISTICAL SUMMARY (ESTIMATED MIDYEAR POPULATION, LIVE BIRTHS, DEATHS, MATERNAL DEATHS, INFANT DEATHS, FETAL DEATHS) BY COUNTY: UTAH, 1977

District and County	Estimated Midyear Population	Live Births		Deaths		Maternal Deaths	Infant Deaths		Fetal Deaths	
		Number	Rate[1]	Number	Rate[1]		Number	Rate[2]	Number	Rate[2]
Total	1,270,000	37,956	29.9	7,612	6.0	4	381	10.0	318	8.3
District 1	84,500	2,543	30.1	508	6.0	. .	17	6.7	11	4.3
Box Elder	31,200	826	26.5	204	6.5	1	5	. .	5	. .
Cache	51,600	1,648	31.9	295	5.7	. .	11	6.7	5	. .
Rich	1,700	69	40.6	9	5.3	. .	1	. .	1	. .
District 2N	266,900	7,235	27.1	1,407	5.3	. .	76	10.5	52	7.2
Davis	124,000	3,578	28.9	480	3.9	. .	38	10.6	19	5.3
Morgan	4,900	125	25.5	25	5.1	. .	1	. .	. .	. .
Weber	138,000	3,532	25.6	902	6.5	1	37	10.5	33	9.3
District 2S	556,300	15,588	28.0	3,440	6.2	. .	131	8.4	159	10.2
Salt Lake	532,000	15,012	28.2	3,310	6.2	2	125	8.3	157	10.5
Tooele	24,300	576	23.7	130	5.3	. .	6	. .	2	. .
District 3	191,500	7,556	39.5	986	5.1	. .	73	9.7	50	6.6
Summit	7,200	203	28.2	49	6.8	. .	3	. .	1	. .
Utah	177,000	7,121	40.2	892	5.0	. .	68	9.5	48	6.7
Wasatch	7,300	232	31.8	45	6.2	. .	2	. .	1	. .
District 4	44,300	1,171	26.4	376	8.5	. .	15	12.8	11	9.4
Juab	5,600	142	25.4	37	6.6	. .	2	. .	2	. .
Millard	8,400	243	28.9	67	8.0	. .	3	. .	1	. .
Piute	1,400	21	15.0	9	6.4	. .	. .	. .	. .	. .
Sanpete	13,400	368	27.5	140	10.4	. .	7	. .	4	. .
Sevier	13,700	359	26.2	113	8.2	. .	3	. .	4	. .
Wayne	1,800	38	31.1	10	5.5	. .	. .	. .	. .	. .
District 5	46,500	1,511	32.5	340	9.3	. .	16	10.6	8	5.3
Beaver	4,300	115	26.7	39	9.1	. .	. .	.	1	. .
Garfield	3,600	101	28.1	26	7.2	. .	1	. .	. .	. .
Iron	15,600	523	33.5	85	5.4	. .	7	. .	4	. .
Kane	3,800	111	29.2	30	7.9	. .	1	. .	. .	. .
Washington	19,200	661	34.4	160	8.3	. .	7	. .	3	. .
District 6	30,200	993	32.9	223	7.4	. .	25	25.2	11	11.1
Daggett	800	18	22.5	3	. .	. .	1	. .	. .	. .
Duchesne	11,400	406	35.6	77	6.8	. .	6	. .	3	. .
Uintah	18,000	569	21.6	143	7.9	. .	18	31.6	8	14.1
District 7	50,100	1,359	27.1	332	6.6	. .	28	20.6	16	11.8
Carbon	20,500	541	26.4	183	8.9	. .	13	24.0	5	. .
Emery	9,300	289	31.1	49	5.3	. .	2	. .	5	. .
Grand	7,300	189	25.9	39	5.3	. .	5	. .	1	. .
San Juan	13,000	340	26.2	61	4.7	. .	8	23.5	5	. .

[1]per 1,000 population.

[2]Per 1,000 live births; rates not computed where number of occurrences is 7 or less.

In the urban counties, the birth rate was higher than the State's rate; while the mortality, fetal death, and infant death rates were lower than the State's rates. In the rural counties, the birth and fetal death rates were lower than those of the State; however, the mortality and infant death rates were higher. The higher mortality rate in rural areas can partially be attributed to the "older" rural population.

Another approach to rural-urban analysis is to use the Bureau of Census' classifications of Standard Metropolitan Statistical Area (S.M.S.A.), urban and rural areas.

There are two S.M.S.A.s in Utah. One, the Salt Lake-Ogden area, consists of Davis, Salt Lake, Tooele, and Weber Counties. The 1977 population of this S.M.S.A. was 818,300. The second S.M.S.A. is entirely within Utah County, and its population was 177,000 in 1977.

The other urban population is defined as ". . . all persons living in urbanized areas."[1] and ". . . incorporated places of 2,500 inhabitants or more. . . . small parcels of land normally less than one square mile in area having a population density of 1,000 inhabitants or more per square mile."[1] For purposes of this analysis the following cities make up the "other urban" category: Blanding, Brigham City, Cedar City, Heber, Hyrum, Logan, Moab, Nephi, Price, Richfield, Roosevelt, St. George, Smithfield, Tremonton, and Vernal.

The rural population is defined as "all persons residing in the 24 counties except Davis, Salt Lake, Tooele, Utah, and Weber; and excluding the populations of the 15 cities listed in the preceding paragraph, which are defined as "other urban."

Table 8 shows a comparison of vital events for the two S.M.S.A.s combined, the "other urban," and "rural" areas. This summary includes some rural areas within the two S.M.S.A.s; while some small urban areas, e.g., Delta, Park City, Manti, are included in the rural grouping. This tabulation is more sensitive than the one in Table 5. The birth rate for the rural area was 25.7 and was the lowest for the State. The mortality and infant mortality rates for the rural areas were 6.6 and 13.0, respectively. Both of these rates were lower than "other urban." The fetal mortality rate for rural areas, 6.7, was also the lowest in the State.

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[1]General Social and Economic Characteristics, Utah, U.S. Dept. of Commerce, Bureau of Census, 1970, pages App-1, and App-3, Appendix A.

TABLE 8

POPULATION, BIRTHS, DEATHS, AND RATES BY PLACE OF RESIDENCE: UTAH, 1977

	State[1] Total	S.M.S.A. Total	Other[2] Urban	Rural
Population	1,270,000	995,300	107,300	167,400
Births	37,956	29,819	3,839	4,298
Birth rate	29.9	30.0	35.8	25.7
Deaths	7,612	5,714	787	1,111
Death rate	6.0	5.7	7.3	6.6
Infant deaths	381	274	51	56
Infant death rate	10.0	9.2	13.3	13.0
Fetal deaths	318	259	30	29
Fetal death rate	8.4	8.7	7.8	6.7

[1]Population estimated by the Utah Population Work Committee.

[2]Population estimates by Bureau of Health Statistics from Population Estimates and Projections, Current Population Reports, Series P25-692, April 1977.

Note: Birth and death rate per 1,000 population; infant and fetal death rate per 1,000 live births.

BIRTHS

BIRTH SUMMARY

The 37,956 reported live births to Utah residents in 1977 represented an increase of 2,646 or 7.5 percent over the 35,310 reported in 1976. The 1977 birthrate of 29.9 per 1,000 population is a 4.2 percent increase over the 1976 rate of 28.7.

The Utah fertility rate in 1977 was 129.4 live births per 1,000 women ages 15-44. This rate was 92 percent higher than the national fertility rate of 67.4 for the same year. Nationally, the fertility rate continued to decline from a peak of 122.9 in 1957 to 67.4 in 1977. The Utah fertility rate, which showed a steady decline between 1960 and 1968, from 146.5 to 106.5, appears to have risen erratically for the next 7 years, and in 1976 made an abrupt increase which continued in 1977. The fertility rate in Utah has been consistently higher than the national average (Table 9).

The highest birthrate in the State, 40.6, was in Rich County; the highest birthrate for counties with more than 5,000 population, 40.2, was in Utah County; the lowest birthrate in the same category, 23.7, was in Tooele County (Table 7).

During 1977, 19,496 males and 18,460 females were born to Utah's residents. This was a sex ratio of 105.6 males born for every 100.0 females. Table 10 summarizes the ratio of male to female live births for Utah and United States since 1960.

Ninety-nine percent of births to Utah residents occurred in Utah, and 97 percent of the births in Utah were to residents of this State. Table 11 represents each state with seven or more Utah resident births.

The data in Table 12 give the number of births occurring to Utah residents by county of residence and by county of occurrence. The 6 counties without hospitals reported only 6 births occurring in those counties, even though there were 560 births to residents of those counties during 1977.

Most of the infants born in Utah were delivered in a hospital (98.5 percent) and by a physician (97.9 percent).

TABLE 9

FEMALES AGES 15-44, BIRTHS, AND FERTILITY RATES: UTAH AND U.S., 1952-1977

Year	Utah Females Ages 15-44	Resident Live Births	Fertility Rate[1]	
			Utah	U.S.
1952	157,080	24,236	154.3	[2]113.9
1953	159,340	24,147	151.5	[2]115.2
1954	101,910	24,905	153.8	[2]118.1
1955	164,170	25,103	152.9	[2]118.5
1956	166,600	25,449	152.8	[2]121.2
1957	168,880	26,064	154.3	[2]122.9
1958	171,640	25,384	147.9	[2]120.2
1959	174,620	25,645	146.9	[2]120.2
1960	179,275	26,272	146.5	118.0
1961	182,240	26,590	145.9	117.2
1962	186,692	26,213	140.4	112.2
1963	191,704	24,952	130.1	108.5
1964	196,541	23,844	121.3	105.0
1965	201,509	22,261	110.5	96.6
1966	206,376	22,601	109.5	91.3
1967	211,815	22,948	108.3	87.6
1968	217,662	23,193	106.5	85.7
1969	223,579	24,232	108.4	86.5
1970	229,839	26,969	117.5	87.9
1971	236,386	27,552	116.5	81.8
1972	243,135	26,911	110.7	73.4
1973	249,869	27,978	112.0	69.2
1974	255,883	29,946	117.0	68.4
1975	261,024	30,667	117.5	66.7
1976	279,050	35,310	126.5	65.8
1977	293,380	37,956	129.4	67.4

[1]Per 1,000 women 15-44 years of age.

[2]Adjusted for under-registration.

TABLE 10

LIVE BIRTH SEX RATIO: UTAH AND U.S., 1961-1977

Year	Live Birth Sex Ratio Utah Residents	Live Birth Sex Ratio U.S.[1] Residents
1960	105.1	104.9
1961	104.9	105.0
1962	104.2	104.8
1963	102.8	105.3
1964	105.2	104.7
1965	105.7	105.1
1966	105.9	104.9
1967	105.9	105.0
1968	104.9	105.3
1969	105.1	105.3
1970	106.2	105.5
1971	105.0	105.2
1972	103.1	105.1
1973	104.6	105.2
1974	103.6	105.5
1975	104.5	105.4
1976	106.3	105.3
1977	105.6	105.3

[1]Vital Statistics of the United States, 1972, vol. I: Natality, National Center for Health Statistics Rockville, Maryland 20852, (HRA) 76-1100, pages 1-21. Monthly Vital Statistics Report, Advanced Report Final Natality Statistics 1977, National Center for Health Statistics, vol. 27, no. 11, Feb. 5, 1979

TABLE 11

OUT-OF-STATE UTAH RESIDENT BIRTHS AND OUT-OF-STATE OCCURRENCE BIRTHS: UTAH, 1977

State	Births Occurring to Utah Residents in Indicated State	Births Occurring in Utah to Residents of the Indicated State
Total	271	1,170
Arizona	36	167
California	17	42
Colorado	37	32
Idaho	52	302
Nevada	17	266
New Mexico	55	11
Wyoming	26	310
All other	31	40

TABLE 12

BIRTHS THAT OCCURRED IN UTAH AND TO UTAH RESIDENTS OUTSIDE UTAH, 1977

District and County	Births by County of Mother's Residence			Births by County of Occurrence		
	Total	Occurring in Utah	Occurring Outside of Utah	Total	Mother a Utah Resident	Mother Not a Utah Resident
Total	37,956	37,685	271	38,855	37,685	1,170
District 1	2,543	2,504	39	2,643	2,381	262
Box Elder	826	821	5	676	651	25
Cache	1,648	1,633	15	1,967	1,730	237
Rich	69	50	19	. .	. .	. .
District 2N	7,235	7,213	22	7,274	7,118	156
Davis	3,578	3,567	11	2,472	2,445	27
Morgan	125	125	. .	2	2	. .
Weber	3,532	3,521	11	4,800	4,671	129
District 2S	15,588	15,535	53	16,283	16,115	168
Salt Lake	15,012	14,972	40	16,101	15,936	165
Tooele	576	563	13	182	179	3
District 3	7,556	7,531	25	7,749	7,637	112
Summit	203	201	2	38	36	2
Utah	7,121	7,098	23	7,473	7,372	101
Wasatch	232	232	. .	238	229	9
District 4	1,171	1,169	2	1,065	1,052	13
Juab	142	142	. .	122	122	. .
Millard	243	242	1	208	202	6
Piute	21	21	. .	. .	. .	. .
Sanpete	368	368	. .	349	344	5
Sevier	359	359	. .	386	384	2
Wayne	38	37	1	. .	. .	. .
District 5	1,511	1,497	14	1,889	1,525	364
Beaver	115	115	. .	116	112	4
Garfield	101	101	. .	94	93	1
Iron	523	522	1	605	553	52
Kane	111	104	7	125	94	31
Washington	661	655	6	949	673	276
District 6	993	984	9	906	894	12
Daggett	18	13	5	. .	. .	. .
Duchesne	406	405	1	471	469	2
Uintah	569	566	3	435	425	10
District 7	1,359	1,252	107	1,046	963	83
Carbon	541	539	2	503	500	3
Emery	289	282	7	4	4	. .
Grand	189	183	6	236	228	8
San Juan	340	248	92	303	231	72

Table 13 summarizes the low-birth-weight (less than 5 pounds 8 ounces) infants in 1977 by race of mother. Blacks had the highest percentage (13.3 percent) of low-birth-weight infants in the State: while whites and Indians experienced the lowest percentage (5.2 percent). In the United States during 1977, the percentage of black low-birth-weight infants was 12.8.[1] Although the Utah percentage was higher than the national figure for black infants, the percentage in Utah may be unreliable due to the small number of black infants born in the State.

TABLE 13

PERCENTAGE LOW-BIRTH-WEIGHT INFANTS OF TOTAL BIRTHS BY RACE AND SEX: UTAH, 1977

Race	Total	Male	Female
Total	5.2	4.9	5.6
White	5.2	4.9	5.5
Black	13.3	11.2	15.5
Indian	5.2	4.7	5.8
Other nonwhite	6.0	5.8	6.2

For each racial group, a smaller percentage of males were low-birth-weight than females. For the entire State, 4.9 percent of all male and 5.6 percent of all female infants born in 1977 weighed 2,500 grams or less at birth.

Table 14 shows the mean age of all mothers at first live birth as 21.5, with "other nonwhite" as having the oldest mean age (23.9). "Other nonwhites" had the oldest mean ages for all categories of live births. Indians had the youngest mean ages until four or more live births. No conclusions can be drawn for more than four live births, due to the small number of occurrences, particularly for races other than white. The mean age of all mothers for all births was 24.6 years.

The average interval between births for all mothers appears to be about 2.5 years. The interval for Indian mothers appears to be the smallest; and the interval for black mothers, the largest.

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[1]Monthly Vital Statistics Report, Advance Report Final Natality Statistics, 1977, HRA (76-1120), vol. 27, no. 11, (National Center for Health Statistics, Hyattsville, Md. 20852) February 5, 1979.

TABLE 14

MEAN AGE OF MOTHER BY RACE AND NUMBER OF THIS BIRTH
UTAH, 1977

Race	Mean Age of Mother by Number of This Birth					
	1	2	3	4	5	6+
All races	21.5	24.0	26.6	29.0	31.1	34.3
White	21.6	24.0	26.6	29.0	31.2	34.4
Black	20.9	24.1	27.2	28.1	30.5	29.7
Indian	19.5	22.9	24.6	26.9	28.3	34.4
Other nonwhite	23.9	26.0	27.3	29.1	31.3	33.0

Thirty-eight percent of births were to women ages 20-24, and over 30 percent occurred to females ages 25-29 (Reference Table A-10).

Birth order by district varied considerably as indicated in Table 15. The percentage of first- and second-order births nationally (73.6 percent) exceeded the percentage of these births for each of the multicounty districts. The state-wide total was 57.5 percent. The percentage of births for each birth order, three and above, was greater for Utahns state-wide and in each district than for the United States. Utah women had 174 percent more fifth-order births than nationally--6.3 percent compared with 2.3 percent; and 178 percent more sixth- or higher-order births--6.4 percent compared with the national average of 2.3 percent.

TABLE 15

PERCENTAGE OF BIRTHS BY REPORTED BIRTH ORDER AND DISTRICT
UTAH AND THE UNITED STATES, 1977

District of Mother's Residence	Total	Percentage of Births This Birth Order					
		1st	2nd	3rd	4th	5th	6th+
Total	100.0	31.2	26.3	18.6	11.3	6.3	6.4
District 1	100.0	31.5	26.2	17.4	11.4	6.9	6.6
District 2N	100.0	30.6	26.1	19.7	11.7	6.2	5.6
District 2S	100.0	31.6	27.5	19.4	10.7	5.6	5.3
District 3	100.0	34.0	24.6	15.4	11.1	7.2	7.7
District 4	100.0	24.1	25.6	20.3	13.3	6.7	10.1
District 5	100.0	25.8	23.3	19.4	13.6	7.2	10.7
District 6	100.0	26.9	24.2	18.9	13.0	8.1	8.9
District 7	100.0	29.0	27.9	20.8	10.5	6.4	5.4
United States[1] [2]	100.0	41.5	32.1	14.9	5.6	2.3	2.3

[1]Ibid. [2]1.4 percent not stated.

The greatest variation between districts was demonstrated in first-order births. The percentages varied from 24.1 in District 4 to 34.0 in District 3. No district first-order-birth percentage was as high as the percentage for first-order births in the United States. District 5 recorded the highest percentage of sixth- and higher-order births (10.7 percent); District 2S, the lowest (about 5 percent). For the State, 26 percent of the births were second-order, and over 6 percent were sixth-order and higher.

The large percentage of sixth- or higher-order births in District 5 may be influenced by a community of traditional Latter Day Saint Church members who are encouraged to have large families.

Table 16 shows how the "percentage this birth order" differed for each race. Blacks had the highest percentage of first-order births and Indians had the highest percentage of high-order (6+) births. In only two districts, Uintah Basin and Southeastern, did white infants account for less than 95 percent of the births. In those two districts Indians accounted for 9.7 and 12.8 percent, respectively. The district with the largest percentage of black births (1.1 percent) was Wasatch Front North. The districts with the largest proportion of "other nonwhite" births (1.6 percent) were Wasatch Front South and Wasatch Front North. The total number of nonwhite births was only 1,218; therefore, caution should be used in interpreting these statistics which are based on such small numbers.

TABLE 16

"PERCENTAGE THIS REPORTED BIRTH ORDER" BY RACE FOR RESIDENTS
UTAH, 1977

Race of Mother	Total	Percentage This Reported Birth Order					
		First	Second	Third	Fourth	Fifth	Sixth and Higher
Total	100.0	31.2	26.3	18.6	11.3	6.3	6.4
White	100.0	31.1	26.3	18.6	11.3	6.3	6.4
Black	100.0	39.8	31.7	13.4	7.5	3.8	3.8
Indian	100.0	32.2	24.1	15.1	12.8	7.1	8.6
Other nonwhite	100.0	36.3	26.3	18.6	10.2	3.2	5.4

In Utah, low-birth-weight infants (2,500 grams or less) comprised 5.2 percent of the live births to residents. Nationally, 7.1 percent of all live births were low-birth-weight in 1977[1]

Table 17 gives the percentage of low-birth-weight infants for each of the multicounty districts for each year since 1970. Although the state-wide percentage of low-birth-weight infants increased in 1976, it decreased again in 1977 and there was some variation between districts.

TABLE 17

PERCENTAGE OF LOW-BIRTH-WEIGHT INFANTS BY DISTRICT AND YEAR: UTAH, 1970-1977

District	1970	1971	1972	1973	1974	1975	1976	1977
State	6.5	6.2	6.0	5.5	5.3	5.3	5.4	5.2
Bear River (1)	4.7	5.7	6.1	4.6	5.6	4.9	5.8	4.5
Wasatch Front North (2N)	6.9	6.3	6.6	6.4	5.7	5.4	5.2	5.5
Wasatch Front South (2S)	7.1	6.7	6.2	6.1	5.7	5.7	6.1	5.5
Mountainland (3)	5.5	5.6	4.7	4.1	4.3	4.6	4.6	4.4
Six County (4)	6.7	5.6	4.8	5.3	4.5	5.6	4.7	5.3
Five County (5)	5.3	5.4	5.5	4.8	4.2	5.0	3.6	4.0
Uintah Basin (6)	6.1	3.6	6.6	5.1	3.6	4.2	6.3	6.2
Southeastern (7)	7.0	5.3	6.9	5.1	7.6	6.1	5.5	7.7

Maternal age is another variable which contributes to infant birth weight. Eight and five-tenths percent of the infants born to mothers 19 years of age or younger in 1977 were of low birth weight (Table 18), while 4.3 percent born to mothers 35 years of age or older also were of low birth weight. However, the percentage of low-birth-weight infants born to mothers in the age groups 25 and over were less than the percentage of low-birth-weight infants born to all mothers.

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[1]Advanced Report Final Natality Statistics, 1977 from Monthly Vital Statistics Report, (HRA) 76 1120, vol. 27, no. 11 (National Center for Health Statistics, Hyattsville, Md. 20852), February 5, 1979.

TABLE 18

LIVE BIRTHS BY BIRTH WEIGHT AND MOTHER'S AGE: UTAH, 1977

Age of Mother	Total Live Births		Live Births by Birth Weight			
			Low Birth Weight		More than 2,500 Grams	
	Number	Percent	Number	Percent	Number	Percent
Total[1]	37,722	100.0	1,976	5.2	35,746	94.7
19 years or younger	4,246	100.0	364	8.5	3,882	91.4
20-24 years	14,269	100.0	768	5.3	13,501	94.6
25-29 years	11,414	100.0	502	4.3	10,912	95.6
30-34 years	5,614	100.0	247	4.3	5,367	95.6
35 years or older	2,179	100.0	95	4.3	2,084	95.6

[1]Does not include "not stated" ages or birth weights.

Another factor which contributes to low-birth-weight outcomes is length of gestation period. In 1977 there were much lower percentages of low-birth-weight infants among those born after 37 weeks gestation than those born before 38 weeks gestation (Table 19).

TABLE 19

LOW-BIRTH-WEIGHT INFANTS BY WEEKS GESTATION: UTAH, 1977

	Total	Number and Percentage of Infants by Weeks Gestation								
		Under 20	20-27	28-35	36-37	38-39	40-41	42-43	44+	Not Stated
Low-birth-weight infants[1]	1,987	2	61	504	311	370	288	122	71	259
Percentage of total births	5.2	50.0	83.6	55.0	18.3	5.1	2.1	1.7	1.7	8.9

[1]Birth weights not stated are not included.

Three measures of the adequacy of prenatal care a mother receives are "mean number of prenatal visits," "percentage of mothers receiving less than five prenatal visits," and "percentage of mothers who began their prenatal care after the first trimester." Table 20 shows these

TABLE 20

SUMMARY OF PRENATAL CARE REPORTED RECEIVED BY AGE OF MOTHER, RACE OF CHILD, AND DISTRICT OF MOTHER'S RESIDENCE: UTAH, 1977

	Mean Number of Prenatal Visits	Percentage of Mothers Receiving Under 5 Prenatal Visits	Percentage of Mothers Who Began Care After First Trimester
Age of mother			
Total	11.1	4.4	15.9
Under 15	7.7	30.8	39.2
15-19	10.4	8.8	30.8
20-24	11.2	3.8	13.8
25-29	11.2	3.3	13.0
30-34	11.1	4.0	14.8
35-39	10.8	5.8	18.7
40-44	10.7	8.2	21.3
45+	9.8	16.7	16.6
Race of child			
Total	11.1	4.4	15.9
White	11.1	4.0	15.3
Black	10.6	5.6	25.1
Indian	7.9	32.2	46.5
Other nonwhite	10.2	7.7	27.6
District of mother's residence			
State	11.1	4.4	15.9
Bear River (1)	10.9	4.1	18.5
Wasatch Front North (2N)	11.2	3.0	12.9
Wasatch Front South (2S)	11.4	3.2	16.3
Mountainland (3)	10.9	4.5	13.2
Six County (4)	10.9	7.0	20.6
Five County (5)	10.0	8.3	20.9
Uintah Basin (6)	10.1	10.0	21.1
Southeastern (7)	9.0	15.7	25.9

variables by age of mother, race of child, and district of mother's residence. For each of these the "not stated" total has been deleted before computing the mean number or percentage.

Prenatal care statistics varied considerably by race of child, age, and district of mother's residence. Based on the previously discussed variables, mothers of white infants received the "best" prenatal care. Mothers of Indian babies received the "worst" prenatal care.

Residents of the Wasatch Front North District received the "best" prenatal care. Residents of the Southeastern District received the "worst" care.

The 35 females under 15 years of age waited longer before beginning their prenatal care and had fewer prenatal visits than any other age group. Sixty-nine percent of births to this group were out of wedlock. Women ages 25-29 had the highest mean number of prenatal visits, the lowest percentage of females receiving less than five prenatal visits, and the lowest percentage starting care after the first trimester.

The mean number of prenatal visits in Utah was 11.1 compared with 10.9 prenatal visits for the 41 states reporting nationally (including Utah).

Conditions noted at birth can give an indication of the well-being of the newborn. Unfavorable conditions, such as complications of pregnancy or delivery, birth injury, and congenital malformations, decrease the probability of survival. Tables 21, 22, and 23 compare the unfavorable conditions noted at birth with age of mother, weight at birth, and when prenatal care began. These factors, in addition to the weeks gestation previously discussed, appear to have the most impact on the number of unfavorable conditions noted at birth. Table 21 gives age of mother and the percentage of births in which at least one unfavorable condition was noted at birth.

Mothers age "under 15" and age "45 and over" have the largest percentage of unfavorable outcomes at birth. The lowest percentage occurs in the 20-24 age group.

Table 22 provides the number of unfavorable conditions noted by the birth weight of the newborn. Those infants whose birth weight is 2,500

grams or less experience unfavorable conditions at least twice as often as those infants who weigh over 2,500 grams.

Table 23 shows the number of unfavorable conditions noted by the trimester in which prenatal care began.

TABLE 21

UNFAVORABLE CONDITIONS AT BIRTH BY AGE OF MOTHER: UTAH, 1977

At Least One Unfavorable Condiiton	Age of Mother							
	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Number	6	879	2,706	2,196	1,136	387	87	6
Percentage of total live births	17.1	20.8	18.8	19.1	20.1	21.3	23.8	28.5

TABLE 22

UNFAVORABLE CONDITIONS AT BIRTH BY BIRTH WEIGHT: UTAH, 1977

At Least One Unfavorable Condition	Birth Weight in Grams								
	1000 or Less	1001-1500	1501-2000	2001-2500	2501-3000	3001-3500	3501-4000	4001-4500	Over 4500
Number	76	106	263	682	1,338	2,515	1,713	532	114
Percentage of total live births	75.2	77.4	73.5	49.0	22.6	17.0	15.1	16.7	22.2

TABLE 23

UNFAVORABLE CONDITIONS AT BIRTH BY TRIMESTER CARE BEGAN: UTAH, 1977

At Least One Unfavorable Condition	Trimester Care Began				
	No Care	First	Second	Third	Not Stated
Number	23	5,909	1,067	114	295
Percentage of total live births	24.5	19.2	20.6	20.6	23.0

The infants whose mothers wait until the second or third trimester experience a higher percentage of unfavorable conditions at birth than those whose mothers began care in the first trimester.

Nationally, the relationship between education of parents and the number of children they had was clear--the higher the education the fewer the children. The mean parity for mothers over age 19 compared to the mothers' education follows: less than 4 years of high school, 3.05; 4 years of high school, 2.12; and 1 or more years of college, 1.88 children.[1] Table 24 gives the percentage of "this birth order" by education of mothers over age 19. Only mothers over 19 were selected in order to provide all mothers the opportunity to have acquired more than 12 years of education. The Utah experience is similar to the U.S. in that those mothers with less than high school education have the highest percentage of fifth-or-higher order births. The mothers with high school and more-than-high school educations have about the same percentages of fourth-and-higher order births, with the more-than-high school educated mothers being slightly higher. If the average number of children per mother is calculated for each level of education, less-than-high school educated have 3.03 children per mother, high school educated have 2.76 children per mother and more-than-high school educated have 2.68 children. These ratios for Utah mothers show the same pattern as the U.S. although the more educated mothers' ratios are somewhat higher.

TABLE 24

"PERCENTAGE THIS REPORTED BIRTH ORDER" BY EDUCATION OF MOTHERS OVER AGE 19: UTAH, 1977

Birth Order	Total	Less than High School	High School	More than High School
Total	100.0	100.0	100.0	100.0
First	26.5	14.4	24.5	29.9
Second	26.8	29.4	28.8	24.8
Third	20.2	24.6	20.9	19.0
Fourth	12.4	14.1	12.1	12.4
Fifth and higher	14.1	17.5	13.7	13.9

[1]Calculated by the Bureau of Health Statistics from data in the Vital Statistics of the United States, 1975, vol 1: Natality, National Center for Health Statistics, Hyattsville, Md. pages 1-172. Due to data limitations, the mean parities calculated probably understate the actual mean parities.

Less than 8 percent of Utah fathers had received less than a high school education, 28 percent were high school graduates, and 60 percent had completed one or more years of college. Among Utah mothers, 13 percent had not completed high school, 38 percent were high school graduates, and 47 percent completed one or more years of college.

Nationally, 44 states reported information about the education of the parents. Sixteen percent of fathers had not completed high school, 30 percent had received high school diplomas, and 52 percent had completed one or more years of post high school education. Among mothers, the respective figures were 26 percent, 44 percent, and 30 percent.[1]

There were 1,806 out-of-wedlock births to Utah residents reported in 1977 (Table 25). This was 4.8 percent of all live births to resident females in the State. These out-of-wedlock births represent an increase of 21.0 percent over 1976. Table 25 summarizes out-of-wedlock births in Utah from 1960 to 1977 by age of mother. In the 38 states reporting, nationally, 19.8 percent of the births were out of wedlock[1]

Over 50 percent of the out-of-wedlock births in Utah were to females 19 years or younger. The mean age of mothers for all out-of-wedlock births in the State was 20.6 years.

Figure 5 summarizes the percentage of out-of-wedlock births to total births by district. The districts above the State average (4.8 percent out-of-wedlock births) were 2 North, 2 South, 6, and 7; with 5.3, 6.1, 5.3, and 6.6 percent, respectively. Figure 6 provides out-of-wedlock births by age of mother.

Twenty-one and three-tenths percent (910) of all births to females less than 19 years of age were born out of wedlock. This percentage dropped dramatically for females over 20 years of age; i.e., 4.1 percent for females 20-24, 1.4 percent for females 25-39, and less than 1 percent for those 40 years and older. The 85.7 percent out-of-wedlock births to females less than 15 years of age was based on a total of 35 of these young women who gave birth in 1977.

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[1]Final Natality Statistics from Monthly Vital Statistics Report, (PHS) 77-1120 vol. 21, no. 11 (National Center for Health Statistics, Hyattsville, Md. 20852) Feb. 5, 1979.

TABLE 25

OUT-OF-WEDLOCK BIRTHS BY AGE OF MOTHER: UTAH, 1960-1977

Year	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unknown
1977	1,806	30	880	584	211	73	22	2	1	3
1976	1,493	20	735	479	168	65	21	4	. .	1
1975	1,321	32	642	439	136	48	18	3	. .	3
1974	1,138	16	564	380	114	40	18	3	. .	3
1973	1,216	23	638	381	112	40	15	6	. .	1
1972	1,136	23	574	379	83	42	26	5	2	2
1971	1,058	11	500	382	105	38	19	3	. .	. .
1970	1,215	14	588	441	100	40	20	5	. .	7
1969	993	14	413	407	103	36	12	3	1	4
1968	933	7	394	347	106	36	29	7	2	5
1967	791	11	347	280	86	38	18	7	. .	4
1966	742	4	331	281	70	31	18	6	. .	1
1965	676	3	279	246	86	35	16	8	1	2
1964	585	4	255	207	59	35	14	4	. .	7
1963	465	8	169	165	63	34	15	10	. .	1
1962	474	4	167	163	67	36	20	10	1	6
1961	456	5	178	161	58	31	11	6	. .	6
1960	406	8	157	133	56	21	21	8	. .	2

FIGURE 5. PERCENTAGE OF BIRTHS OUT OF WEDLOCK IN EACH DISTRICT: UTAH, 1977

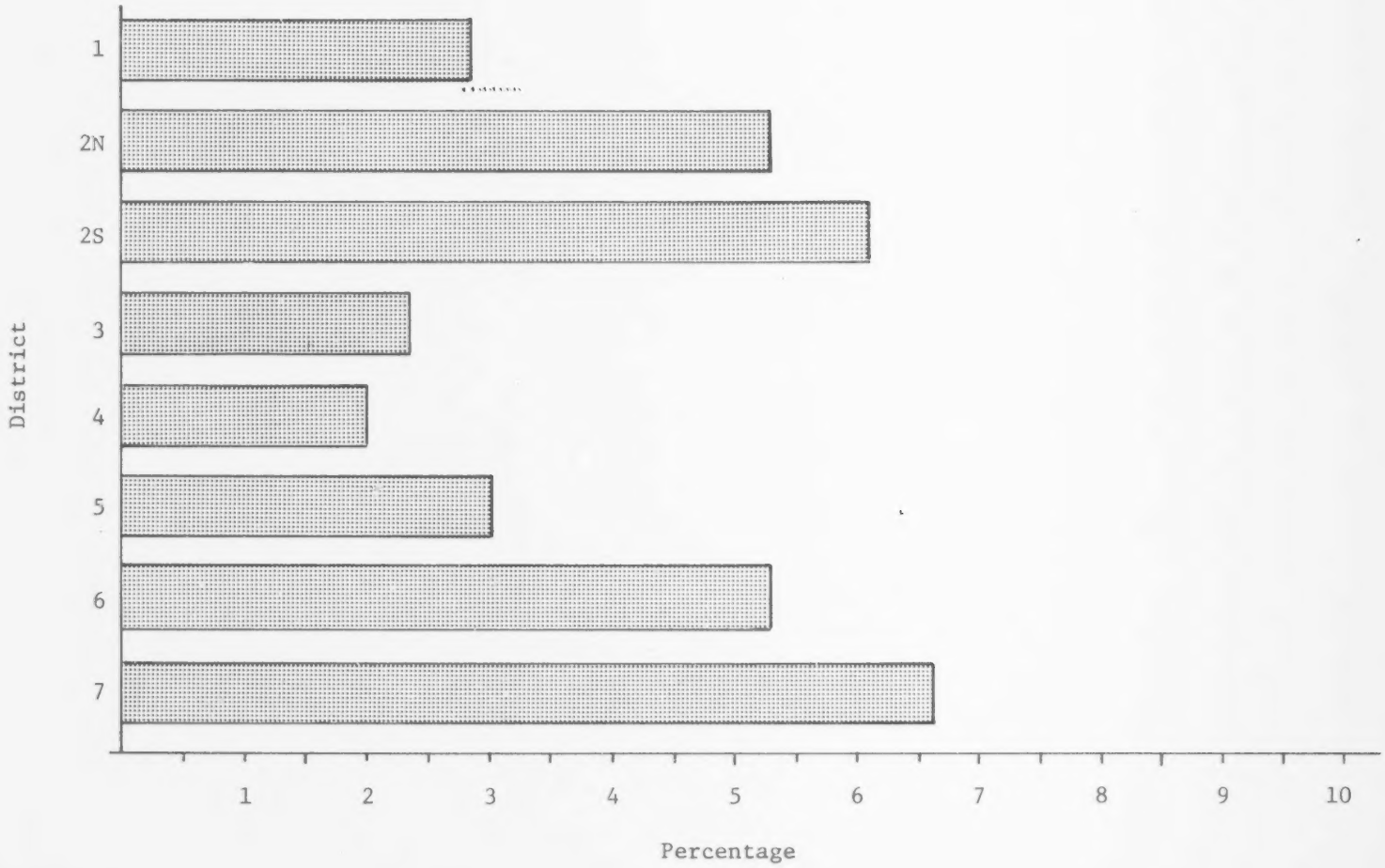
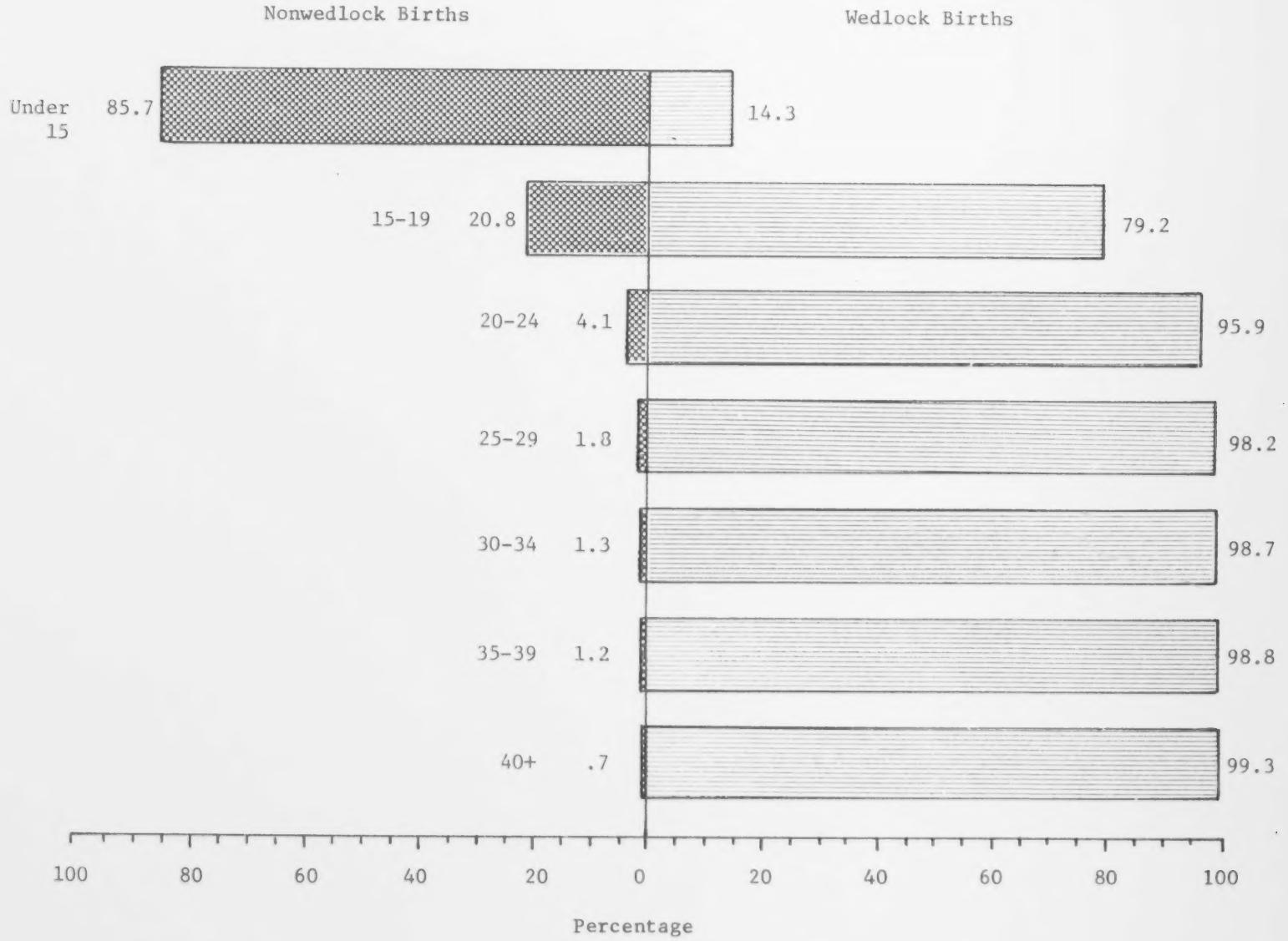


FIGURE 6. WEDLOCK VERSUS NONWEDLOCK BIRTHS BY AGE GROUP OF MOTHER: UTAH, 1977



DEATHS

DEATH SUMMARY

The 7,612 deaths of Utah residents in 1977 represent an increase of 140 or 1.9 percent more than the 1976 total. The mortality rate of 6.0 per 1,000 population is 1.6 percent less than the 1976 rate of 6.1

In Utah, deaths are classified under four categories: "preventable," "violent," "chronic and old age," and "all others."

"Chronic and old age" deaths are usually associated with older age groups. The age-specific rates for these causes increase with advanced years. Examples of this classification of death are cancer, diabetes, and diseases of the heart.

"Preventable causes" are those which result in high mortality rates in most underdeveloped areas, and which tend to decrease rapidly with technological advances. Examples of this classification are infectious and parasitic diseases, respiratory, certain diseases of early infancy, and "ill-defined conditions." This latter classification tends to decline rapidly with advances in scientific knowledge and improvements in medical care.

"Violent causes" include deaths due to alcoholism, accident, suicide, homicide, and those deaths classified as "unable to determine whether purposely or accidentally inflicted."

"All other causes" include the few remaining causes of death not otherwise classified.

In 1974 two changes in these classifications were made. Deaths under age 55 from diabetes mellitus (ICDA 250) and acute cardiac arrest (ICDA 427.2) were classified as "preventable." Deaths to those ages 55 years and older from these causes continued to be classified as "chronic and old age." The effect of these changes was to reduce the total number of deaths classified as "chronic and old age," and increase the total deaths from "preventable" causes.

Beginning with the 1976 report another change was made. Deaths from respiratory diseases at age 65 and over have been reclassified

from the "preventable" to the "chronic and old age" category. Its effect is the reverse of the 1974 change.

Table 26 shows the crude rates for each class of causes during the 1970-1977 period.

TABLE 26

CLASS OF DEATH RATES FOR THE YEARS 1970-1977

Class of Cause	Death Rates by Year							
	1970	1971	1972	1973	1974	1975	1976	1977
Chronic and old age	449.8	468.0	452.6	461.9	450.4	441.1	439.4	432.0
Preventable	102.5	84.7	81.6	79.9	71.3	77.2	70.0	63.9
Violent	87.2	84.0	92.2	91.2	78.8	80.4	74.2	76.6

Two classes of causes appear to have a trend, they are "chronic and old age" and "preventable." Preventable" has decreased from 102.5 per 100,000 population in 1970 to 63.9 per 100,000 population in 1977. The decline has been constant except for the year 1975. "Chronic and old age" has decreased since 1973.

Tables 27, 28, and 29 give the chronic and old age, preventable, and violent deaths by county for the years 1970 to 1977. These tables have been restated to reflect the 1976 classifications, and therefore will not agree with the figures reported in previous editions.

Table 30 shows the class of cause by place where the death occurred and by race and sex of decedent. Seventy-four percent of all chronic and old age deaths, as well as 75 percent of all preventable causes, occurred either in a hospital or nursing home. Only 41 percent of the violent causes occurred in these two places. The distribution of deaths by race and sex is similar to the total distribution with the exception of Indians. About one-fourth (26 percent) of all Indian deaths were due to chronic and old age causes; for Indian males it was less than one-fourth (24 percent). The majority of Indian deaths were in the violent class of causes. Table A-37 gives the number of deaths for each class by county and district in 1977. The percentage of deaths in each classification varies considerably for each district. The graph in Figure 7 illustrates these differences for each district and the State. Table A-38 shows the age distribution for each class of death. As would be expected, 90 percent of those who died at ages over 75 were classified

TABLE 27

CHRONIC, OLD AGE DEATHS BY DISTRICT AND COUNTY OF RESIDENCE
UTAH, 1970-1977

District and County	Deaths by Year							
	1970	1971	1972	1973	1974	1975	1976	1977
Total	4,795	5,125	5,105	5,312	5,310	5,307	5,413	5,498
District 1	325	368	344	364	411	377	399	392
Box Elder	125	136	137	147	160	155	148	157
Cache	193	217	192	209	241	210	234	228
Rich	7	15	15	8	10	12	17	7
District 2N	952	888	885	960	1,006	1,006	985	1,008
Davis	240	262	236	246	266	273	314	346
Morgan	15	15	14	27	19	17	14	18
Weber	684	611	635	687	721	716	657	644
District 2S	2,195	2,432	2,437	2,484	2,388	2,467	2,411	2,526
Salt Lake	2,109	2,351	2,337	2,380	2,291	2,361	2,328	2,432
Tooele	86	81	100	104	97	106	83	94
District 3	578	613	622	622	657	608	721	691
Summit	32	41	39	38	36	41	36	31
Utah	502	525	541	543	584	535	648	628
Wasatch	44	47	42	41	37	32	37	32
District 4	274	317	274	313	300	302	320	272
Juab	31	47	37	36	49	30	39	25
Millard	51	40	58	49	50	48	64	43
Piute	10	8	9	8	11	12	11	6
Sanpete	87	123	82	108	100	115	103	96
Sevier	81	80	77	102	77	86	91	92
Wayne	14	19	11	10	13	11	12	10
District 5	198	221	228	234	217	216	266	263
Beaver	33	35	24	31	27	28	35	32
Garfield	29	28	21	23	14	13	16	21
Iron	45	69	79	67	62	67	65	59
Kane	15	10	20	18	18	15	18	22
Washington	74	81	84	95	96	93	132	129
District 6	96	89	95	116	119	95	87	127
Daggett	2	5	2	1	2	3	2	. .
Duchesne	48	38	47	48	56	34	35	46
Uintah	46	46	46	67	61	58	50	81
District 7	190	197	220	219	212	236	224	219
Carbon	113	110	130	130	131	141	122	135
Emery	37	37	47	47	37	44	41	35
Grand	20	25	26	23	18	30	33	22
San Juan	20	25	17	19	26	21	28	27

TABLE 28

PREVENTABLE DEATHS BY DISTRICT AND COUNTY OF RESIDENCE
UTAH, 1970-1977

District and County	Deaths by Year							
	1970	1971	1972	1973	1974	1975	1976	1977
Total	1,093	927	921	919	841	929	863	812
District 1	50	31	46	54	43	47	46	44
Box Elder	23	19	19	23	19	17	20	17
Cache	27	11	25	30	24	30	25	26
Rich	. .	1	2	1	. .	. .	1	1
District 2N	196	195	182	180	160	181	185	160
Davis	79	63	68	53	55	62	72	65
Morgan	4	2	. .	4	5	3	4	2
Weber	113	130	114	123	100	116	109	93
District 2S	575	441	419	420	344	382	340	315
Salt Lake	555	431	399	402	326	359	326	301
Tooele	20	10	20	18	18	23	14	14
District 3	128	137	130	133	138	141	142	136
Summit	8	4	10	5	2	7	6	6
Utah	116	126	116	122	135	132	127	124
Wasatch	4	7	4	6	1	2	9	6
District 4	40	26	35	43	42	55	31	45
Juab	5	10	7	4	7	7	3	7
Millard	8	1	6	8	6	18	2	9
Piute	1	8	3	3	1	. .	1	1
Sanpete	14	5	10	18	17	20	12	18
Sevier	10	1	9	7	10	8	12	10
Wayne	2	1	. .	3	1	2	1	. .
District 5	46	40	38	32	50	44	43	28
Beaver	5	5	2	7	. .	4	1	2
Garfield	3	2	2	2	4	1	2	1
Iron	11	6	14	5	5	10	12	13
Kane	2	2	2	3	6	5	4	1
Washington	25	25	18	15	35	24	24	11
District 6	27	18	27	30	25	32	29	38
Daggett	. .	1	. .	. .	1	. .	. .	1
Duchesne	15	6	13	10	13	13	13	10
Uintah	12	11	14	20	11	19	16	27
Duchesne 7	31	36	44	27	39	47	47	46
Carbon	10	10	18	7	15	20	16	21
Emery	5	6	7	3	7	1	4	4
Grand	3	11	7	5	4	9	6	8
San Juan	13	9	12	12	13	17	21	13

TABLE 29

VIOLENT DEATHS BY DISTRICT AND COUNTY OF RESIDENCE
UTAH, 1970-1977

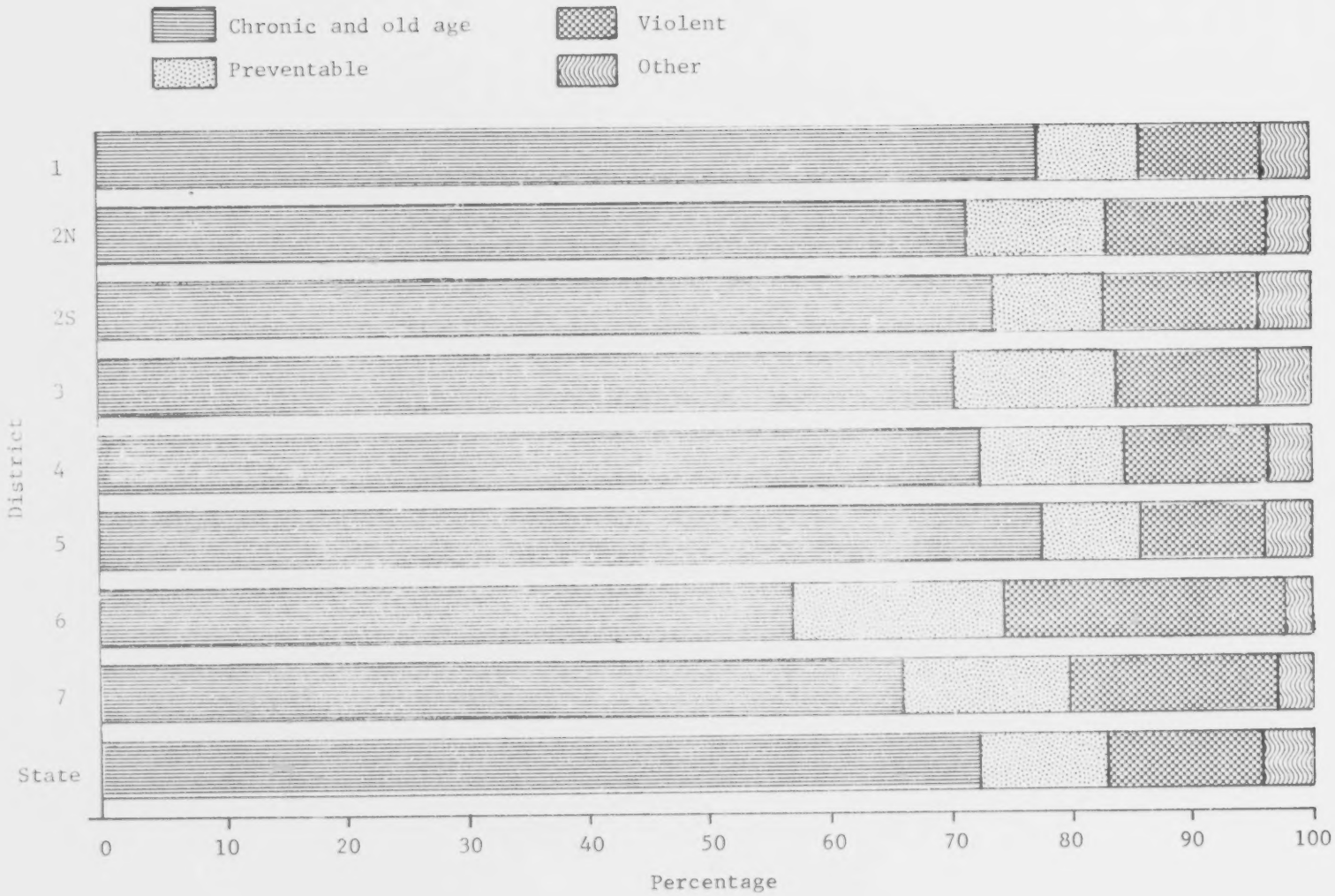
District and County	Deaths by Year							
	1970	1971	1972	1973	1974	1975	1976	1977
Total	930	920	1,040	1,049	929	967	914	973
District 1	47	45	51	57	50	52	47	51
Box Elder	18	21	19	27	19	27	21	21
Cache	26	19	26	28	30	24	23	29
Rich	3	5	6	2	1	1	3	1
District 2N	170	180	190	192	182	192	177	187
Davis	58	83	65	73	53	62	59	54
Morgan	2	2	3	4	5	3	3	2
Weber	110	95	122	115	124	127	115	131
District 2S	445	447	483	465	427	433	429	433
Salt Lake	413	416	456	438	412	415	401	415
Tooele	32	31	27	27	15	18	28	18
District 3	84	92	99	120	97	106	98	112
Summit	5	4	5	11	9	6	6	9
Utah	75	85	87	102	83	94	89	96
Wasatch	4	3	7	7	5	6	3	7
District 4	31	27	55	49	43	42	25	45
Juab	5	5	7	7	6	5	2	4
Millard	7	1	11	8	8	6	7	10
Piute	1	13	3	3	2	1	2	. .
Sanpete	12	4	14	17	11	14	8	22
Sevier	6	3	19	13	13	16	5	9
Wayne	. .	1	1	1	3	. .	1	. .
District 5	55	46	50	43	42	32	39	35
Beaver	8	1	9	3	5	6	4	5
Garfield	10	4	6	6	3	7	4	2
Iron	16	12	13	8	12	8	14	9
Kane	3	5	3	4	6	1	2	5
Washington	18	24	19	22	16	10	15	14
District 6	29	33	51	57	44	49	54	53
Daggett	2	. .	. .	1	. .	. .	1	2
Duchesne	8	11	17	14	13	17	11	21
Uintah	19	22	34	42	31	32	22	30
District 7	69	46	61	66	44	61	65	57
Carbon	41	26	21	34	15	29	25	21
Emery	11	5	8	12	3	9	11	9
Grand	3	5	13	8	3	5	9	6
San Juan	14	10	19	12	23	18	20	21

TABLE 30

DEATHS BY MAJOR CLASSIFICATION, PLACE WHERE DEATH OCCURRED, RACE, AND SEX OF DECEDENT: UTAH, 1977

	Total	Deaths by Major Classification			
		Chronic and Old Age	Preventable	Violent	Residual
Total deaths	7,612	5,498	812	973	329
Place Where Death Occurred					
Hospital	4,061	2,946	549	377	189
Not stated	3	3	. .	. .	. .
Home	1,638	1,219	149	212	58
Enroute to hospital	255	125	31	97	2
Nursing home	1,296	1,133	63	22	78
Clinic, doctor's office, maternal home	9	7	2	. .	. .
Other location	350	65	18	265	2
Race and Sex of Decedent					
White	7,422	5,409	776	911	326
Male	4,203	2,911	473	667	152
Female	3,218	2,497	303	244	174
Sex unknown	1	1	. .	. .	. .
Black	48	26	5	15	2
Male	26	12	1	13	. .
Female	22	14	4	2	2
Indian	88	23	22	43	. .
Male	58	14	13	31	. .
Female	30	9	9	12	. .
Other nonwhite	54	40	9	4	1
Male	33	25	5	3	. .
Female	21	15	4	1	1

FIGURE 7. PERCENTAGE OF DEATHS EACH CLASS EACH DISTRICT: UTAH, 1977



in the chronic and old age causes of death. Conversely, 73 percent of those who died under age 15 were classified in the preventable causes of death. Sixty-two percent of the deaths to those of ages 25 to 34 were due to violent class causes.

Table 31 compares age-specific by sex mortality rates between Utah and the United States. Although the infant mortality rate is significantly lower in Utah than the United States, the rates are comparable between the ages of 1 year up to age 34. Starting with age 35, the mortality rates nationally are higher than the rates in Utah; in fact, the difference in the rates increases for each age group until age 85 and over. In the age group 85+ the mortality rate nationally is 30 percent less than in Utah, which indicates that Utah residents live longer than residents of most other states.

TABLE 31

AGE-SPECIFIC MORTALITY RATES BY SEX: U.S. AND UTAH, 1977

	All Ages[1]	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Utah total	6.0	10.0	0.8	0.3	1.1	1.2	1.8	4.6	11.4	26.4	63.1	192.4
Male	6.9	11.7	0.9	0.4	1.7	1.8	2.5	6.0	15.1	35.9	79.3	202.1
Female	5.1	8.2	0.8	0.2	0.4	0.6	1.1	3.2	7.9	18.5	52.2	186.7
U.S.[2] total	8.8	14.9	0.7	0.3	1.2	1.4	2.5	6.2	14.3	30.6	71.8	147.3
Male	9.9	16.6	0.8	0.4	1.7	1.9	3.2	8.1	19.4	42.3	93.8	173.0
Female	7.7	13.0	0.6	0.3	0.6	0.8	1.8	4.4	9.9	21.5	58.5	135.4

[1]Rate for all ages includes ages not stated.

[2]Advanced Report, Final Mortality Statistics from Monthly Vital Statistics Report, (HRA) 76-1120 vol. 28, no. 1 (National Center for Health Statistics, Hyattsville, Md. 20852, May 11, 1979).

Figure 8 shows the percentage distribution of deaths for males and females in 10-year age groups in Utah. Except for the 1-9 age group, and continuing through age 69, males had a higher percentage of deaths than did females. Over 62 percent of all females who died, died at age 70 or older; for males this percentage was over 45 percent.

Figure 9 shows how the age at death in Utah has changed over the years. Deaths of persons under 45 years of age have shown a steady

FIGURE 8. PERCENTAGE DISTRIBUTION OF DEATHS BY AGE AND SEX: UTAH, 1977

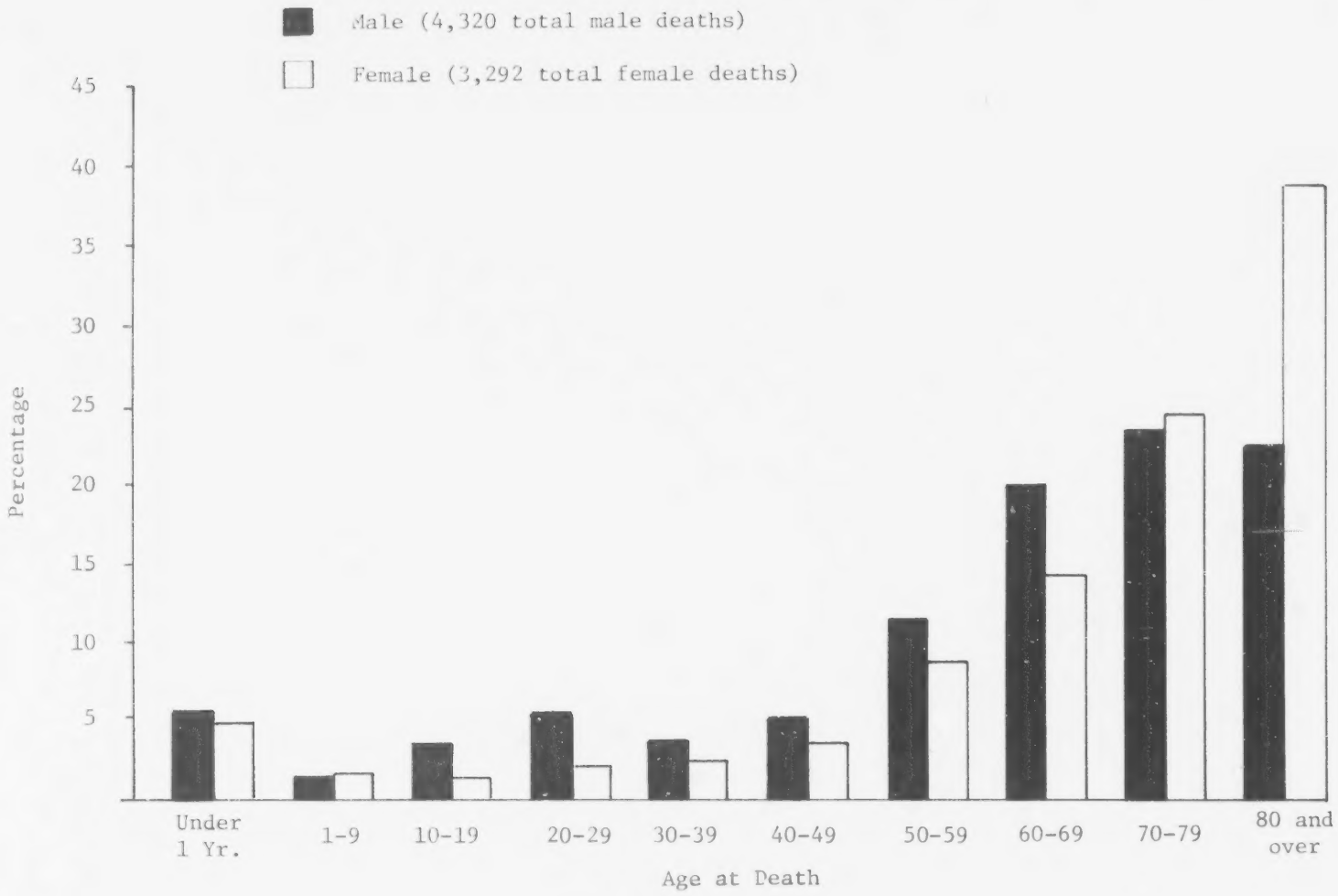
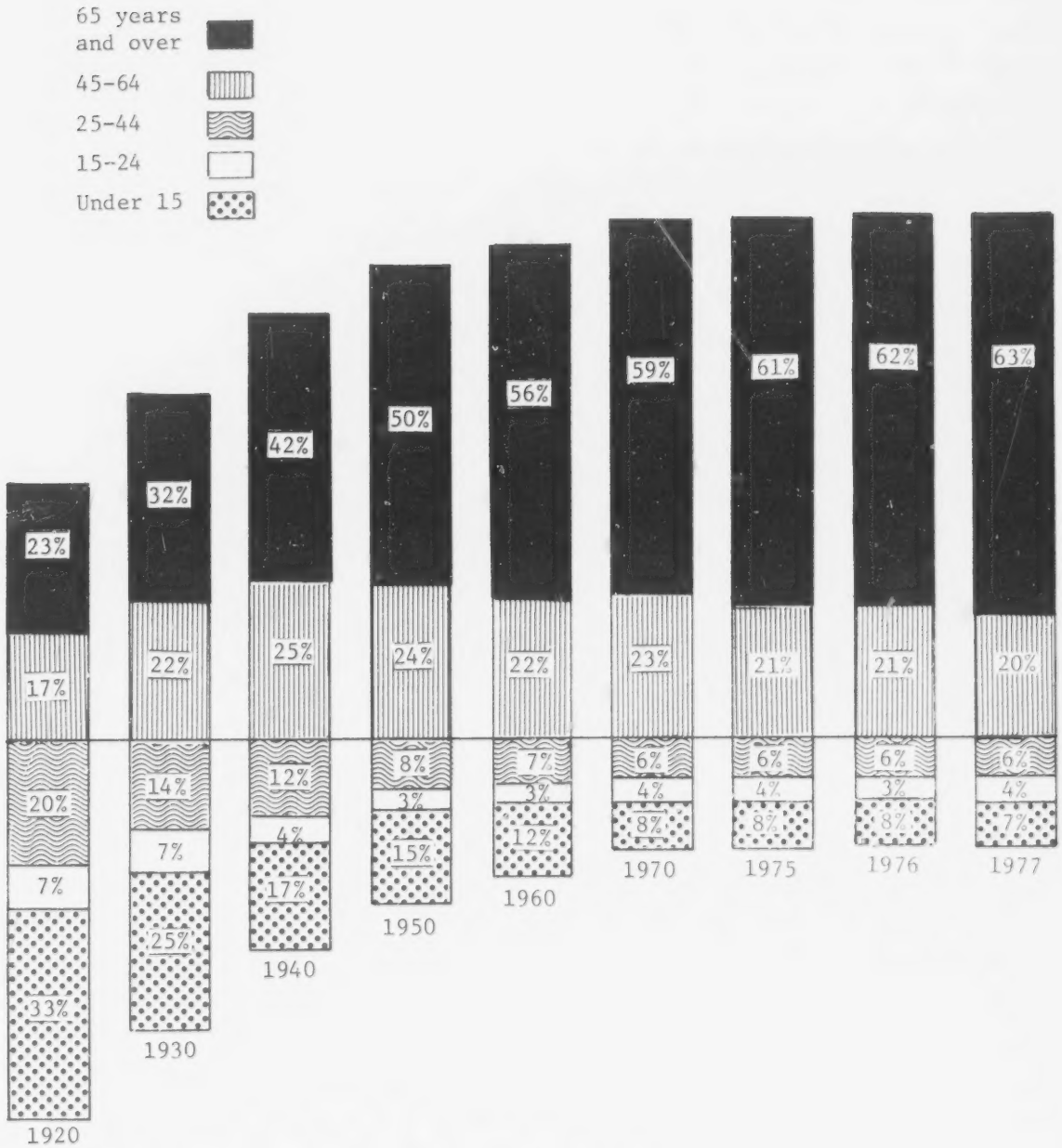


FIGURE 9

TREND OF AGE AT DEATH: UTAH, 1920-1977
(Percentage of Total Deaths)



decline as a proportion of total deaths. Even so, it was not until 1950 that persons 65 years of age and over accounted for 50 percent or more of all deaths. Since 1950, the greatest improvement in the reduction of early deaths has been at under 15 years of age. In 1977, 7 percent of deaths occurred to persons under 15 years of age; in 1950, 15 percent of deaths were in that age group.

Table 32 and Figure 10 give the trend of the 10 leading causes of death for the past 12 years.

The order of the first four causes of death has remained unchanged since 1965. "Diseases of the heart," the leading cause of death, accounts for more than twice as many deaths as the second leading cause, malignant neoplasms. Of those heart disease deaths, 55 percent were male and 45 percent were female. The mean age of those who died of diseases of the heart was 72 years. Cerebrovascular disease and accidents were consistently the third and fourth leading causes, while the fifth leading cause continues to be influenza and pneumonia in 1977, the sixth leading cause in 1977 was suicide, and the seventh leading cause was diabetes. From 1972 to 1976 the sixth leading cause of death was "certain diseases of early infancy," which ranked eighth in 1977. A newcomer to the 10 leading causes in 1977 was "other diseases of the respiratory system," which ranked ninth.

The number of deaths and death rate per 100,000 population due to selected causes for the years 1970-1977 are presented in Tables 33 and 34.

Table 35 gives the number of deaths to Utah residents by county of residence, and the number of deaths occurring in Utah by county of occurrence. Table 7, page 15, gives the population and death rates for each county.

Of those counties with more than 2,500 population, Sanpete had the highest death rate (10.4) and Davis County the lowest (3.9) per 100,000 population. The contrast in rates is due to differences in the age distribution of the population in these counties. Seventy-four percent of the deaths to residents of Sanpete County were persons age 65 or older; while 46 percent of the deaths to residents of Davis County were in this age group. In 1970 the mean age of Sanpete County residents was 28.4 years; the mean age in Davis County was 19.6 years. These two statistics confirm that the age distributions of the two counties are opposites--

TABLE 32

LEADING CAUSES OF DEATH: UTAH, 1966-1977

Rank	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Total	6,850	6,516	6,882	6,791	7,063	7,245	7,323	7,573	7,380	7,519	7,472	7,612
1	Heart 2,310	Heart 2,154	Heart 2,319	Heart 2,178	Heart 2,236	Heart 2,448	Heart 2,485	Heart 2,463	Heart 2,438	Heart 2,479	Heart 2,501	Heart 2,557
2	Cancer 977	Cancer 922	Cancer 925	Cancer 969	Cancer 1,029	Cancer 1,016	Cancer 1,027	Cancer 1,088	Cancer 1,162	Cancer 1,169	Cancer 1,246	Cancer 1,272
3	Cerebro-vascular 665	Cerebro-vascular 567	Cerebro-vascular 653	Cerebro-vascular 646	Cerebro-vascular 662	Cerebro-vascular 734	Cerebro-vascular 713	Cerebro-vascular 793	Cerebro-vascular 783	Cerebro-vascular 725	Cerebro-vascular 675	Cerebro-vascular 671
4	Accident 595	Accident 563	Accident 575	Accident 586	Accident 618	Accident 601	Accident 694	Accident 697	Accident 621	Accident 606	Accident 556	Accident 618
5	Early Infancy 271	Early Infancy 206	Influenza Pneumonia 245	Influenza Pneumonia 213	Early Infancy 231	Early Infancy 220	Influenza Pneumonia 201	Influenza Pneumonia 224	Influenza Pneumonia 222	Influenza Pneumonia 271	Influenza Pneumonia 259	Influenza Pneumonia 224
6	Influenza Pneumonia 194	Influenza Pneumonia 191	Early Infancy 235	Early Infancy 203	Influenza Pneumonia 198	Influenza Pneumonia 192	Early Infancy 193	Early Infancy 184	Early Infancy 206	Early Infancy 198	Early Infancy 208	Suicide 180
7	Diabetes 146	Diabetes 129	Diabetes 131	Diabetes 144	Diabetes 160	Diabetes 183	Diabetes 173	Diabetes 158	Diabetes 157	Suicide 165	Suicide 167	Diabetes 172
8	G.Arterio-sclerosis 114	Congenital Anomalies 99	Suicide 130	Suicide 114	Suicide 150	Suicide 135	Suicide 139	Suicide 146	Suicide 134	Diabetes 152	Diabetes 150	Early Infancy 152
9	Congenital Anomalies 102	G.Arterio-sclerosis 97	Congenital Anomalies 119	Congenital Anomalies 114	Asthma Emphysema Bronchitis 147	Asthma Emphysema Bronchitis 126	Alcoholism 123	Alcoholism 141	G.Arterio-sclerosis 120	Congenital Anomalies 137	Congenital Anomalies 131	Other Dis. Respirato-ry System 140
10	Suicide 101	Suicide 97	G.Arterio-sclerosis 97	G.Arterio-sclerosis 103	Congenital Anomalies 124	Alcoholism 120	Asthma Emphysema Bronchitis 108	Asthma Emphysema Bronchitis 127	Asthma Emphysema Bronchitis 119	Asthma Emphysema Bronchitis 133	G.Arterio-sclerosis 123	Congenital Anomalies 135
Residual	1,375	1,491	1,453	1,521	1,502	1,475	1,467	1,552	1,418	1,499	1,456	1,491

FIGURE 10

MORTALITY RATES PER 100,000 POPULATION FOR THE TEN LEADING CAUSES OF DEATH: UTAH, 1964-1977

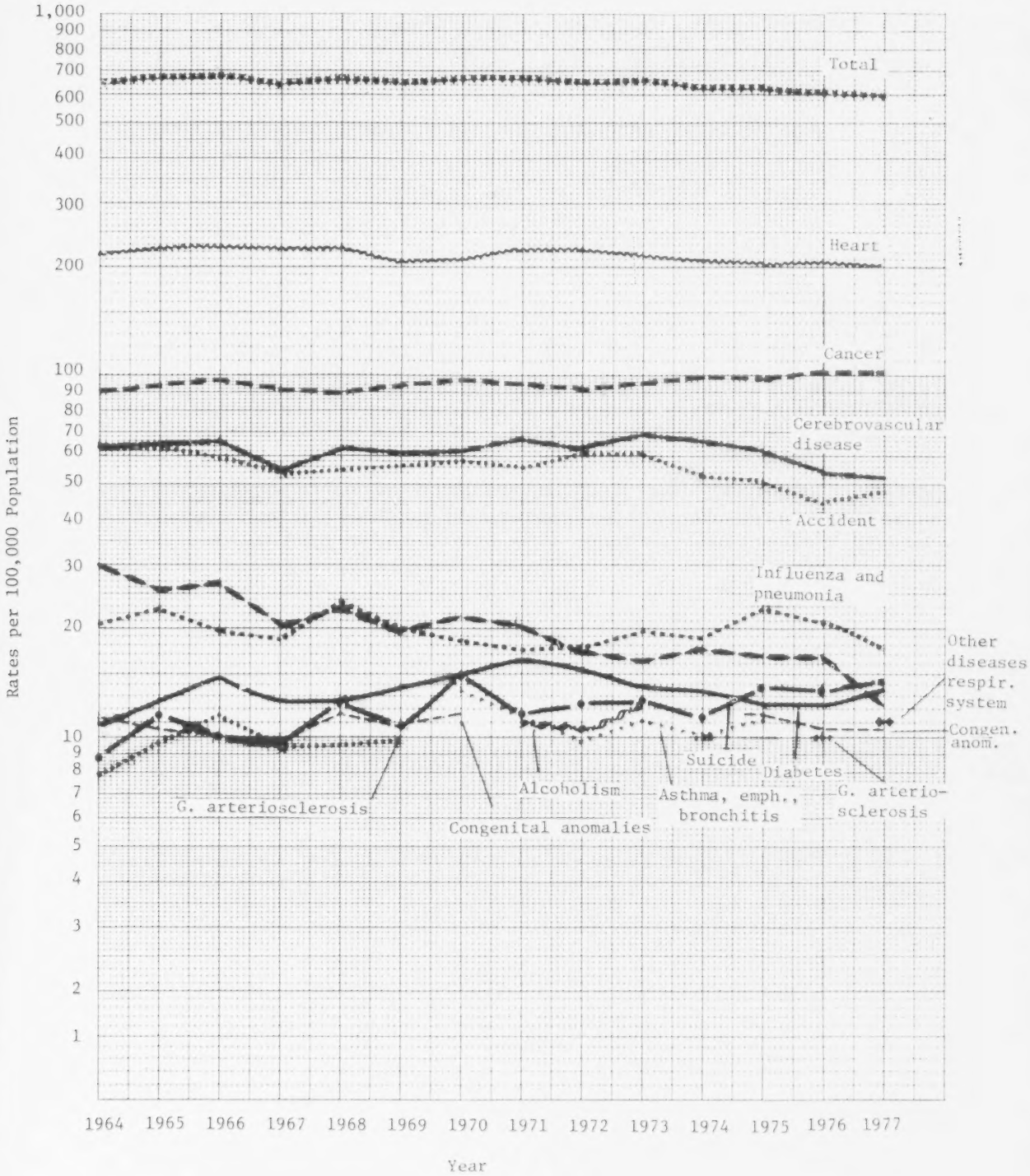


TABLE 33

MORTALITY FOR SELECTED CAUSES OF DEATH: UTAH, 1970-1977

Cause of Death per Eighth Revision of the International Classification of Disease	Deaths for Each Year							
	1977	1976	1975	1974	1973	1972	1971	1970
Total, all causes	7,612	7,472	7,519	7,380	7,573	7,323	7,245	7,063
Tuberculosis, all forms, 010-019	6	8	6	8	14	10	13	13
Syphilis and its sequilae, 090-097	1	. .	3	. .	1	2	1	1
Intestinal infectious disease, 000-009	10	17	16	18	15	15	17	16
Meningococcal infectious, 036	1	. .	3	. .	. .	. .	5	2
Septicemia, 038	35	22	29	23	21	23	21	10
Late effects of acute poliomyelitis, 044	1	. .	2	. .	1	1	. .	1
All other infective and parasitic diseases, 020-027, 030-031, 034-035, 037-039, 045-046, 050-054, 060-068, 070-079, 080, 089-136	8	16	9	13	20	18	17	23
Malignant neoplasms, 140-209	1,272	1,246	1,269	1,162	1,088	1,027	1,016	1,029
Diabetes mellitus, 250	172	150	152	157	158	173	183	160
Diseases of the heart, 390-398, 402, 404, 410-429	2,557	2,500	2,479	2,438	2,463	2,485	2,448	2,236
Hypertension without mention of the heart, 400, 401, 403	20	17	15	20	24	18	28	22
Cerebrovascular disease, 430-438	671	675	725	783	793	713	734	662
General arteriosclerosis, 440	104	123	93	120	122	104	98	108
Other diseases of circulatory system, 441-458	175	183	171	144	157	171	190	167
Influenza and pneumonia, 470-486	224	259	271	222	224	201	192	198
Asthma, bronchitis and emphysema, 490-493	118	111	133	119	127	108	126	147
Ulcer of stomach and duodenum, 531-533	32	31	32	35	39	39	36	49
Gastritis, duodentitis, entertis and colitis, 535, 561, 563	7	7	4	10	9	8	6	10
Hernia and intestinal obstruction, 550-553, 560	36	33	19	32	42	27	32	25
Cirrhosis of the liver, 571	121	100	126	96	121	106	97	102
Acute nephritis and nephrosis, 580-581	1	3	7	3	3	2	4	8
Chronic nephritis, unspecified nephritis and other renal sclerosis, 582-583	17	28	31	25	24	33	25	24
Deliveries and complications of pregnancy, childbirth, and the puerperium, 630-678	4	7	6	2	5	12	2	6
Congenital anomalies, 740-759	135	131	137	104	114	107	107	124
Certain diseases of early infancy, 760-779	152	208	198	206	184	193	220	231
Symptoms, senility, and ill-defined conditions, 780-796	176	146	200	188	264	225	231	350
Motor vehicle accidents, E810-E823	336	286	278	275	370	388	330	326
Accidents, all others, E800-E807, E825-E827, E830-E838, E840-E845, E850-E859, E860-E949	282	270	328	346	327	306	271	292
Suicide, E940-E959	180	167	165	134	146	139	129	156
Homicide, E960-E978	52	60	36	46	41	43	35	41
All other causes	706	668	676	651	656	626	631	524

TABLE 34

MORTALITY RATES FOR SELECTED CAUSES OF DEATH: UTAH, 1970-1977

Cause of Death per Eighth Revision of the International Classification of Disease	Rates per 100,000 Population							
	1977	1976	1975	1974	1973	1972	1971	1970
Total, all causes	599.4	606.5	625.0	625.9	658.5	649.2	661.6	662.5
Tuberculosis, all forms, 010-019	([1])	0.6	([1])	0.6	1.2	0.9	1.2	1.2
Syphilis and its sequilae, 090-097	([1])	. .	([1])	. .	([1])	([1])	([1])	([1])
Intestinal infectious disease, 000-009	0.8	1.4	1.3	1.5	1.3	1.3	1.6	1.5
Meningococcal infectious, 036	([1])	. .	([1])	. .	. .	. .	([1])	([1])
Septicemia, 038	2.8	1.8	2.4	1.9	1.8	2.0	1.9	0.9
Late effects of acute poliomyelitis, 044	([1])	. .	([1])	. .	([1])	([1])	. .	([1])
All other infective and parasitic diseases, 020-027, 030-031, 034-035, 037-039, 045-046, 050-054, 060-068, 070-079, 080, 089-136	0.6	1.3	.7	1.1	1.7	1.6	1.6	2.2
Malignant neoplasms, 140-209	100.2	101.1	97.2	98.5	94.6	91.0	92.8	96.5
Diabetes mellitus, 250	13.5	12.2	12.6	13.3	13.7	15.3	16.7	15.0
Diseases of the heart, 390-398, 402, 404, 410-429	201.3	202.9	206.1	206.7	214.2	220.3	223.6	209.8
Hypertension without mention of the heart, 400, 401, 403	1.6	1.4	1.2	1.6	2.1	1.6	2.6	2.1
Cerebrovascular disease, 430-438	52.8	54.8	60.3	66.4	69.0	63.2	67.0	62.1
General arteriosclerosis, 440	8.2	9.9	7.7	10.1	10.6	9.2	8.9	10.1
Other diseases of circulatory system, 441-458	13.8	14.9	14.2	12.2	13.7	15.1	17.4	15.7
Influenza and pneumonia, 470-486	17.6	21.0	22.5	18.8	19.5	17.8	17.5	18.6
Asthma, bronchitis and emphysema, 490-493	9.3	9.0	11.1	10.0	11.0	9.6	11.5	13.8
Ulcer of stomach and duodenum, 531-533	2.5	2.5	2.7	2.9	3.4	3.5	3.3	4.6
Gastritis, duodentitis, entertis and colitis, 535, 561, 563	([1])	([1])	([1])	0.8	0.8	0.7	([1])	0.9
Hernia and intestinal obstruction, 550-553, 560	2.8	2.7	1.6	2.7	3.6	2.4	2.9	2.3
Cirrhosis of the liver, 571	9.5	8.1	10.5	8.1	10.5	9.4	8.9	9.6
Acute nephritis and nephrosis, 580-581	([1])	([1])	([1])	([1])	([1])	([1])	([1])	0.8
Chronic nephritis, unspecified nephritis and other renal sclerosis, 582-583	1.3	2.3	2.6	2.1	2.1	2.9	2.3	2.3
Deliveries and complications of pregnancy, childoirth, and the puerperium, 630-678	([1])	([1])	([1])	([1])	([1])	1.1	([1])	([1])
Congenital anomalies, 740-759	10.6	10.6	11.4	8.8	9.1	9.5	9.8	11.6
Certain diseases of early infancy, 760-779	12.0	16.9	16.5	17.4	16.0	17.1	20.1	21.7
Symptoms, senility, and ill-defined conditions, 780-796	13.9	11.9	16.6	15.9	23.0	19.9	21.1	32.8
Motor vehicle accidents, E810-E823	26.5	23.2	23.1	23.3	32.1	34.4	30.1	30.6
Accidents, all others, E800-E807, E825-E827, E830-E838, E840-E845, E850-E859, E860-E949	22.2	21.9	27.3	29.3	28.4	27.1	24.7	27.4
Suicide, E940-E959	14.2	13.6	13.7	11.3	12.7	12.3	11.8	14.6
Homicide, E960-E978	4.1	4.9	3.0	3.9	3.6	3.8	3.2	3.8

[1]If number of deaths was 7 or less, no rate was computed.

TABLE 35

DEATHS THAT OCCURRED IN UTAH AND TO UTAH RESIDENTS OUTSIDE UTAH, 1977

District and County	Deaths by County of Residence			Deaths by County of Occurrence		
	Total	Occurring in Utah	Occurring Outside of Utah	Total	Resident	Nonresident
Total	7,612	7,405	207	8,005	7,405	600
District 1	508	489	19	457	424	33
Box Elder	204	199	5	170	166	4
Cache	295	284	11	283	254	29
Rich	9	6	3	4	4	. .
District 2N	1,407	1,386	21	1,332	1,280	52
Davis	480	473	7	360	347	13
Morgan	25	25	. .	16	16	. .
Weber	902	888	14	956	917	39
District 2S	3,440	3,363	77	4,048	3,720	328
Salt Lake	3,310	3,236	74	3,936	3,617	319
Tooele	130	127	3	112	103	9
District 3	986	968	18	1,009	969	40
Summit	49	48	1	49	44	5
Utah	892	877	15	902	871	31
Wasatch	45	43	2	58	54	4
District 4	376	363	13	332	292	40
Juab	37	36	1	60	43	17
Millard	67	63	4	60	51	9
Piute	9	9	. .	8	8	. .
Sanpete	140	136	4	93	89	4
Sevier	113	109	4	104	95	9
Wayne	10	10	. .	7	6	1
District 5	340	319	21	335	281	54
Beaver	39	37	2	31	28	3
Garfield	26	24	2	17	16	1
Iron	85	80	5	90	75	15
Kane	30	27	3	41	24	17
Washington	160	151	9	156	138	18
District 6	223	213	10	178	164	14
Daggett	3	2	1	8	3	5
Duchesne	77	72	5	85	79	6
Uintah	143	139	4	85	82	3
District 7	332	304	28	314	275	39
Carbon	183	175	8	173	167	6
Emery	49	47	2	32	29	3
Grand	39	33	6	44	29	15
San Juan	61	49	12	65	50	15

Davis has a predominately younger-age population while Sanpete has a predominately older-age population.

Table 36 summarizes the cause-specific fetal death rates in Utah for the past 6 years, 1970-1977. The 1977 fetal death rate was 8.4 per 1,000 live births. This rate is higher than the rate in 1976 which equaled the lowest rate recorded. Conditions of the placenta and umbilical cord, the leading causes of fetal death, accounted for 37 percent of all fetal deaths. "Complications of pregnancy" and "congenital anomalies" were the next largest causes of fetal deaths in 1977.

Over 5 percent of deaths to Utah residents occurred among infants. Of the 381 infant deaths, 59 percent were males and 41 percent were females. About two-thirds (67 percent) of all infant deaths occurred during the first month of life, with over one-third occurring during the first day of life. Twenty-two years earlier, in 1954, 72 percent of infant deaths to Utah residents occurred during the first month of life, with 33 percent during the first day of life. Although the infant mortality rate has decreased by 50 percent since 1954, the change in the age distribution during this time has been negligible. Table 37 summarizes the rates of infant mortality components, 1954-1977.

Table 38 provides infant, neonatal, and perinatal deaths and rates by counties for 1977. Table 39 summarizes the annual number and infant mortality rates per 1,000 live births by condition present at birth for the years 1971-1977.

In 1977, 66 percent of infant deaths were due to conditions present at birth, and 85 percent of the 250 deaths due to these causes (ICDA 740-778) occurred during the neonatal period (Reference Table A-27). One hundred thirty neonatal deaths (51 percent) occurred during the first day of life.

Table 40 shows leading causes of death by age groups. Over age 1 through age 44, accidents are the leading cause of death. From age 45 and over, heart disease becomes the leading cause of death. Malignant neoplasms is the second leading cause of death in all age groups except the very young. Under age 5, congenital anomalies is a major contributor. From age 15 to age 34, suicide ranks high; and strokes are a major cause at age 85 and over.

TABLE 36

FETAL DEATHS BY SELECTED CAUSES: UTAH, 1971-1977

Cause of Fetal Death and Code per Eighth Revision of the ICDA	1977		1976		1975		1974		1973		1972		1971	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total	318	8.4	275	7.8	257	8.1	286	9.6	219	7.8	263	9.8	258	9.4
Umbilical cord, 771	73	1.9	58	1.6	73	2.3	61	2.0	39	1.4	50	1.9	62	2.2
Conditions of placenta, 740-759	45	1.2	43	1.2	51	1.6	53	1.8	43	1.5	45	1.7	43	1.6
Congenital anomalies, 740-759	22	0.6	20	0.7	21	0.7	24	0.8	19	0.7	14	0.5	21	0.8
Hemolytic disease, 775	8	0.2	7	0.2	7	0.2	2	. .	4	0.1	10	0.4	14	0.5
Complications of pregnancy and childbirth, 762-769	37	1.0	31	0.9	25	0.8	35	1.2	22	0.8	35	1.3	38	1.4
Immaturity, unqualified, 777	20	0.5	21	0.6	11	0.3	14	0.8	12	0.4	16	0.6	11	0.4
Anoxic and hypoxic condition not elsewhere classifiable 776	14	0.4	10	0.3	4	0.1	8	0.2	9	0.3	5	0.2	9	0.3
Residual	98		85		65		89		71		88		60	

[1]Rates per 1,000 live births.

TABLE 37

RESIDENT INFANT MORTALITY RATES[1] BY AGE AT DEATH: UTAH, 1954-1977

Year	Total	Age at Death			
		Under 1 Day	1-6 Days	1-4 Weeks	1-11 Months
1977	10.0	3.4	2.3	1.0	3.3
1976	11.7	4.0	2.7	1.2	3.8
1975	13.1	3.7	4.3	1.4	3.9
1974	12.2	4.4	3.0	1.6	3.2
1973	12.7	4.2	3.5	1.3	3.7
1972	13.4	4.6	3.8	1.4	3.5
1971	13.9	5.2	4.2	1.3	3.2
1970	15.0	5.6	4.5	1.0	3.9
1969	15.8	6.0	4.3	1.2	4.3
1968	17.7	7.3	5.0	1.0	4.4
1967	16.7	6.8	4.5	1.2	4.2
1966	18.3	8.2	5.8	1.0	3.3
1965	18.8	7.4	5.2	.9	5.3
1964	20.2	7.8	5.7	1.2	5.5
1963	18.6	6.8	4.9	1.2	5.7
1962	20.0	6.6	6.3	1.3	5.8
1961	20.2	7.7	6.2	1.1	5.2
1960	19.6	6.8	6.7	.9	5.2
1959	20.0	7.2	6.4	1.7	4.7
1958	22.2	7.0	8.2	1.6	5.4
1957	21.5	7.1	7.6	1.9	4.9
1956	22.4	8.3	6.6	1.8	5.7
1955	20.2	7.1	7.3	1.6	4.2
1954	20.3	6.7	6.0	1.8	5.8

[1]Rates are per 1,000 live births.

TABLE 38

INFANT, NEONATAL, AND PERINATAL MORTALITY RATES PER 1,000 LIVE BIRTHS: UTAH, 1977

District and County	Births	Infant (Under 1 Year)		Neonatal (Under 28 Days)		Perinatal (Under 28 Days and Fetal)	
		Deaths	Rate[1]	Deaths	Rate[1]	Deaths	Rate[1]
Total	37,956	381	10.1	255	6.7	582	15.3
District 1	2,543	17	6.7	13	5.1	25	9.8
Box Elder	826	5	(1)	5	(1)	6	(1)
Cache	1,648	11	6.7	7	(1)	18	10.9
Rich	69	1	. .	. .	. .	. .	. .
District 2N	7,235	76	10.5	51	7.0	109	15.1
Davis	3,578	38	10.6	26	7.3	46	12.9
Morgan	125	1	. .	1	. .	1	. .
Weber	3,532	37	10.5	24	6.8	62	17.5
District 2S	15,588	131	8.4	76	4.9	246	15.8
Salt Lake	15,012	125	8.3	72	4.8	240	16.0
Tooele	576	6	(1)	4	. .	6	(1)
District 3	7,556	73	9.7	57	7.5	103	13.6
Summit	203	3	. .	2	. .	2	. .
Utah	7,121	68	9.5	53	7.4	98	13.8
Wasatch	232	2	. .	2	. .	3	. .
District 4	1,171	15	12.8	12	10.2	22	18.8
Juab	142	2	. .	1	. .	1	. .
Millard	243	3	. .	3	. .	5	(1)
Piute	21	. .	. .	. .	. .	. .	. .
Sanpete	368	7	(1)	6	(1)	11	29.9
Sevier	359	3	. .	2	. .	5	(1)
Wayne	38	. .	. .	. .	. .	. .	. .
District 5	1,511	16	10.6	8	5.3	18	11.9
Beaver	115	. .	. .	. .	. .	1	. .
Garfield	101	1	. .	1	. .	1	. .
Iron	523	7	(1)	4	. .	9	17.2
Kane	111	1	. .	. .	. .	. .	. .
Washington	661	7	(1)	3	. .	7	(1)
District 6	993	25	25.2	17	17.1	24	24.2
Daggett	18	1	. .	. .	. .	. .	. .
Duchesne	406	6	(1)	5	(1)	9	22.2
Uintah	569	18	31.6	12	21.1	15	26.4
District 7	1,359	28	20.6	21	15.5	35	25.8
Carbon	541	13	24.0	11	20.0	19	35.1
Emery	289	2	. .	2	. .	3	. .
Grand	189	5	(1)	5	(1)	6	(1)
San Juan	340	8	23.5	3	. .	7	(1)

[1]If number of deaths was 7 or less, no rate was computed.

TABLE 39

RESIDENT INFANT MORTALITY BY SELECTED CONDITIONS PRESENT AT BIRTH: UTAH, 1971-1977

Cause of Infant Death and Code per Eighth Revision of the ICDA	1977		1976		1975		1974		1973		1972		1971	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total	381	10.0	414	11.7	415	13.1	364	12.1	354	12.7	360	13.4	382	13.9
Congenital anomalies, 740-759	98	2.6	90	2.5	102	3.2	77	2.5	82	2.9	84	3.1	78	2.8
Complication of pregnancy and childbirth, 764-769, 772	25	0.7	46	1.3	16	0.5	14	0.4	56	2.0	35	1.3	50	1.8
Hyaline membrane disease, 776.1	28	0.7	50	1.4	63	1.9	63	2.1	50	1.8	55	2.0	52	1.9
Respiratory distress syndrom 776.2	22	0.6	26	0.7	18	0.6	17	0.5	16	6.0	30	1.1	29	1.1
Asphyxia of newborn unspecified, 776.9	24	0.6	20	0.6	24	0.8	29	0.9	20	0.7	36	1.3	44	1.6
Immaturity unqualified, 777	24	0.6	29	0.8	26	0.8	32	1.0	27	1.0	30	1.1	29	1.1
Others	160		154		166		132		103		90		100	

Note: Rates per 1,000 live births.

TABLE 40

LEADING CAUSES OF DEATH FOR RESIDENTS: UTAH, 1977

Cause of Death per Eighth Revision of the International Classification of Disease	Number of Deaths	Age Specific Death Rate per 100,000
Fetal Deaths[1]		
Total all causes	318	8.3
Conditions of umbilical cord, 771	73	1.9
Conditions of the placenta, 770	46	1.2
Complications related to pregnancy and childbirth, 762-769	37	1.0
Immaturity unqualified, 777	20	0.5
Congenital anomalies, 740-759	22	0.6
Hemolytic disease without mention of kernicterus 775	8	0.2
All other causes	112	
Infant Deaths[1]		
Total all causes	381	10.0
Congenital anomalies, 740-759	98	2.6
Hyaline membrane disease, 776.1	28	0.7
Immaturity unqualified, 777	24	0.6
Respiratory distress syndrome, 776.2	24	0.6
Other diseases of early infancy, remainder, 760-778	20	0.5
Other complications of pregnancy and childbirth, 769	17	0.7
Birth injury, 764-768, 772	8	0.2
Asphyxia of newborn unspecified, 776.9	24	0.6
Influenza and pneumonia, 470-474, 480-486	6	0.2
Other infective and parasitic diseases, 010-136	13	0.3
All other causes	119	
Age 1-4		
Total all causes	81	81.9
Accidents, E800-E949	35	35.4
Congenital anomalies, 740-759	11	11.1
Malignant neoplasms, 140-209	9	9.1
Homicide, E960-E978	5	5.1
Meningitis, 320	4	4.0
All other causes	17	
Age 5-14		
Total all causes	79	31.8
Accidents, E800-E949	39	15.7
Malignant neoplasms, 140-209	14	5.6
Congenital anomalies, 740-759	4	1.6
Other congenital disorders of metabolism, 273	4	1.6
All other causes	18	

[1]Rates per 1,000 live births.

TABLE 40--Continued

Cause of Death per Eighth Revision of the International Classification of Disease	Number of Deaths	Age Specific Death Rate per 100,000
Age 15-24		
Total all causes	272	106.1
Accidents, E800-E949	165	64.4
Suicide, E950-E959	42	16.4
Malignant neoplasms, 140-209	10	3.9
Homicide, 960-978	10	3.9
Congenital anomalies, 740-759	5	1.9
All others	40	
Age 25-34		
Total all causes	238	119.0
Accidents, E800-E949	90	45.0
Suicide, E950-E959	35	17.5
Malignant neoplasms, 140-209	23	11.5
Diabetes, 250	12	6.0
Homicide, E960-E978	12	6.0
All other causes	66	
Age 35-44		
Total all causes	221	176.6
Accidents, E800-E949	46	36.8
Malignant neoplasms, 140-209	34	27.2
Heart disease, 390=398, 402, 404, 410-429	33	26.4
Suicide, E950-E959	29	23.2
Alcoholism, 291, 303, 571.0	11	8.8
Influenza and pneumonia, 470-474, 480-486	6	4.8
Diabetes 250	7	5.6
Homicide, 960-979	7	5.6
Cerebrovascular disease, 430-438	5	4.0
All other causes	43	
Age 45-54		
Total all causes	505	455.3
Heart disease, 390-398, 402, 404, 410-429	134	120.8
Malignant neoplasms, 140-209	131	118.1
Accidents, E800-E949	39	35.2
Alcoholism, 291, 303, 571.0	36	32.5
Suicide, E950-E959	28	25.2
Diabetes, 250	16	14.4
Cerebrovascular disease, 430-438	15	13.5
Cirrhosis of liver, 571.1-571.9	11	9.9
Influenza and pneumonia, 470-474, 480-486	11	9.9
All other causes	84	
Age 55-64		
Total all causes	1,071	1139.0
Heart disease, 390-398, 402, 404, 410-429	396	421.1
Malignant neoplasms, 140-209	287	305.2
Cerebrovascular disease, 430-438	53	56.4
Accidents, E800-E949	55	58.4
Bronchitis, emphysema, and asthma, 490-493	18	19.1
Alcoholism, 291, 303, 571.0	32	34.0

TABLE 40--Continued

Cause of Death per Eighth Revision of the International Classification of Disease	Number of Deaths	Age Specific Death Rate per 100,000
Age 55-64 (Continued)		
Suicide, E950-E959	24	25.5
Cirrhosis of liver, 571.1-571.9	21	23.3
Diabetes, 250	18	19.1
Other diseases of respiratory system, 519	20	21.3
Influenza and pneumonia, 470-474, 480-486	13	13.8
All other causes	134	
Age 65-74		
Total all causes	1,627	2,683.4
Heart disease, 390-398, 402, 404, 410-429	654	1,062.6
Malignant neoplasms, 140-209	364	591.4
Cerebrovascular disease, 430-438	117	190.1
Diabetes, 250	41	66.6
Other diseases of respiratory system, 519	62	100.7
Bronchitis, emphysema, and asthma, 490-493	46	74.7
Influenza and pneumonia, 470-474, 480-486	32	52.0
Accidents, E800-E949	59	95.9
All other causes	252	
Age 75-84		
Total all causes	1,877	6,311.4
Heart disease, 390-398, 402, 404, 410-429	773	2,599.2
Malignant neoplasms, 140-209	310	1,042.4
Cerebrovascular disease, 430-438	254	854.1
Influenza and pneumonia, 470-486	69	232.0
Accidents, E800-E949	51	171.5
Arteriosclerosis, 440	38	127.8
Diabetes, 250	56	188.3
Other diseases of respiratory system, 519	38	127.8
Aortic aneurism, 441	18	60.5
Bronchitis, emphysema, and asthma, 490-493	27	90.8
All other causes	243	
Age 85+		
Total all causes	1,260	19,841.3
Heart disease, 390-398, 402, 404, 410-429	555	8,473.3
Cerebrovascular disease, 430-438	216	3,297.7
Malignant neoplasms, 140-209	90	1,374.0
Influenza and pneumonia, 470-486	79	1,206.1
Arteriosclerosis, 440	51	778.6
Accidents, E800-E949	32	488.5
Senility, 794	35	534.4
Other diseases of respiratory system, 519	13	198.5
Bronchitis, emphysema, and asthma, 490-493	17	259.5
Diabetes, 250	20	305.3
All other causes	152	

Tables 41 and 42 show the deaths from malignant neoplasms for the years 1970-1977 by sex of deceased and site of neoplasm. The three leading sites remained unchanged from 1976 to 1977 for males. The fourth leading site in 1976, pancreas, was replaced by leukemia in 1977, and pancreas dropped to fifth. For females, the two leading sites remained unchanged. The third leading site in 1976, uterus, was replaced by ovary in 1977. The fourth leading site in 1977 was pancreas followed by uterus which was fifth.

TABLE 41

DEATHS FROM MALIGNANT NEOPLASMS TO MALES: UTAH, 1970-1977

Site of Lesion	Malignant Deaths by Year							
	1977	1976	1975	1974	1973	1972	1971	1970
Total	656	686	673	635	581	573	586	562
Lung, Bronchus and trachea, 162	144	153	142	148	130	120	132	122
Prostate, 185	83	101	93	71	79	86	83	68
Large intestine, 153	71	50	62	56	50	47	43	47
Pancreas, 157	38	43	45	39	45	36	20	35
Leukemia, 204-207	46	35	41	34	32	32	33	35
Stomach, 151	22	30	32	30	30	43	37	35
Lymphoma, 200-202	29	39	30	39	30	32	43	34
Kidney, 189	19	11	13	9	22	12	14	16
Bladder, 188	19	20	17	32	17	14	18	16
Brain and central nervous system, 191-192	18	24	24	18	14	17	18	16
Liver, bile ducts, gallbladder, 155-156	10	12	14	10	10	8	8	11
Rectum, 154	14	12	14	10	8	13	18	12
Multiple myeloma, 203	14	15	6	16	8	12	9	11
Skin, 172-173	17	17	15	12	7	16	12	11
Esophagus, 150	14	22	19	12	6	11	11	11
Bone, connective and soft tissue, 170-171	12	8	8	5	6	5	11	10
All other sites	86	94	98	94	87	69	76	72

TABLE 42

DEATHS FROM MALIGNANT NEOPLASMS TO FEMALES: UTAH, 1970-1977

Site of Lesion	Malignant Deaths by Year							
	1977	1976	1975	1974	1973	1972	1971	1970
Total	618	572	524	553	507	454	430	467
Breast, 174	142	111	95	129	113	102	112	89
Large intestine, 153	69	75	62	65	58	54	44	60
Ovary, 183	53	29	35	29	40	36	30	36
Pancreas, 157	40	22	27	31	37	29	22	14
Lung, bronchus and trachea, 162	29	34	32	26	31	24	23	25
Uterus, 180-182	31	42	28	44	30	31	34	31
Stomach, 151	22	18	19	31	27	8	19	16
Lymphoma, 200-202	26	29	26	19	21	16	14	17
Leukemia, 204-207	29	30	23	24	17	24	24	41
Liver, bile ducts, gallbladder, 155-156	12	13	12	15	14	15	5	17
Skin, 172-173	8	7	16	8	13	11	8	9
Bladder, 188	11	6	7	5	9	2	7	6
Rectum, 154	8	14	12	13	9	13	7	11
Brain and central nervous system, 191-192	16	19	22	20	8	13	14	11
Multiple myeloma, 203	10	11	5	10	8	7	10	5
Bone, connective and soft tissue, 170-171	12	8	9	10	7	9	8	6
Kidney, 189	13	10	5	8	7	9	5	8
All other sites	87	94	71	66	58	51	44	65

VIOLENT DEATH

VIOLENT DEATH SUMMARY

There were 973 Utah residents who died of violent causes in 1977. This total represents 12 percent of all deaths to Utah residents. Violent causes are defined as accident, alcoholism, homicide, suicide, and "violent but unable to determine whether accidentally or purposely inflicted." Deaths from these causes are typically identified as "coroner" or "medical examiner" cases. The reporting of such cases is influenced by the quality of the medical legal system in a state. Utah adopted a state-wide medical examiner system in 1968. Improvement in reporting since then accounts for some of the increase in the violent death rates.

Table 43 shows the death rate per 100,000 population for each type of violent death for the past 8 years.

TABLE 43

MORTALITY RATES BY TYPE OF VIOLENT DEATH: UTAH, 1970-1977

Type of Violence	Rates per 100,000 population							
	1977	1976	1975	1974	1973	1972	1971	1970
Total	76.6	74.2	80.4	78.7	91.2	92.0	84.1	87.0
Accident	48.7	45.1	50.4	52.7	60.6	61.5	54.9	58.0
Alcoholism	8.1	9.0	10.7	8.3	12.3	10.9	11.0	8.4
Homicide	4.1	4.9	3.0	3.9	3.6	3.8	3.2	3.8
Suicide	14.2	13.6	13.7	11.4	12.7	12.3	11.8	14.6
Unable to determine whether accidentally or purposely inflicted	1.6	1.6	2.6	2.4	2.1	3.5	3.2	2.2

The trend in the mortality rate for all violent deaths has been erratic during the period, 1970-1977. For the years, 1972-1976, the accident rate has declined, with a sharp drop from 1973 to 1974; however, in 1977 it has increased. The nation-wide fuel shortage and mandatory 55 miles per hour speed limit imposed in 1974 may have contributed to the reduction in accidental deaths during the 1972-1976 time period.

Rates for alcoholism have decreased for the last 3 years. The rate of alcoholism decreased 10 percent over the preceding year, and is the lowest rate recorded for the past 8 years.

Table 44 summarizes the distribution of violent deaths by type in 1977. Accidental deaths comprised the largest percentage, about two-thirds of all violent deaths to Utah residents. Accidents claimed the lives of 618 Utahns; of these, 72 percent were males and 28 percent females.

TABLE 44

VIOLENT DEATHS BY TYPE TO RESIDENTS: UTAH, 1977

Type of Violence	Number	Percentage
Total	973	100.0
Accident	618	63.5
Alcoholism	103	10.6
Homicide	52	5.3
Suicide	180	18.5
Unable to determine whether accidentally or purposely inflicted	20	2.1

Suicide accounted for more than 18 percent of the violent fatalities in 1977 and was the second leading cause of violent death. Of 180 suicides, 82 percent were males and 18 percent females. The rate was 14.2 per 100,000 population. Nationally, the suicide rate in 1977 was 13.3

There were 20 Utah residents for whom death was classified as "violent but not determined whether the injury was accidentally or purposely inflicted." About two-thirds of these were males.

Table 45 gives the frequency of methods for self-inflicted deaths by sex for each year, 1962-1977. During this period the annual number of suicides increased from 100 in 1962 to 180 in 1977. The rates have also increased from 8.6 to 14.2 per 100,000 population. Over this 16-year period the number of male suicides increased by 84 percent, while the number of female suicides increased by 65 percent.

The methods used most frequently in 1977 were firearms or explosives (59 percent) and poisoning (29 percent). Table 46 summarizes the

TABLE 45

DEATHS TO RESIDENTS DUE TO SUICIDE BY YEAR, SEX, AND METHOD: UTAH, 1962-1977

Year and Sex	Deaths Due to Suicide by Method Used							
	Total E950-E959	All Poisoning E950-E952	Hanging and Suffocation E953	Drowning E954	Firearms and Explosives E955	Cutting and Piercing Instruments E956	Jumping from High Places E957	All Others
1977	180	53	17	. .	106	. .	3	1
Male	147	34	13	. .	98	. .	2	. .
Female	33	19	4	. .	8	. .	1	1
1976	167	41	18	. .	98	6	2	2
Male	129	27	14	. .	80	5	1	2
Female	38	14	4	. .	18	1	1	. .
1975	165	41	14	. .	101	2	5	2
Male	132	25	10	. .	90	2	3	. .
Female	33	16	4	. .	11	. .	2	. .
1974	134	48	8	. .	[illegible]	1	. .	. .
Male	104	33	8	. .	63	. .	. .	. .
Female	30	15	. .	. .	14	1	. .	. .
1973	146	39	13	1	85	2	1	5
Male	108	23	12	1	68	2	. .	2
Female	38	16	1	. .	17	. .	1	3
1972	139	31	13	2	83	2	1	7
Male	106	19	11	. .	70	2	. .	4
Female	33	12	2	2	13	. .	1	3
1971	129	28	18	. .	81	. .	1	1
Male	88	11	14	. .	62	. .	. .	1
Female	41	17	4	. .	19	. .	1	. .
1970	156	49	16	3	83	2	2	1
Male	114	25	13	1	72	2	1	. .
Female	42	24	3	2	11	. .	1	1
1969	114	43	9	. .	56	3	2	1
Male	87	27	8	. .	49	2	1	. .
Female	27	16	1	. .	7	1	1	1
1968	130	35	13	2	76	2	1	1
Male	105	22	10	1	69	2	1	. .
Female	25	13	3	1	7	. .	. .	1
1967	97	22	13	. .	56	4	1	1
Male	79	12	9	. .	52	4	1	1
Female	18	10	4	. .	4	. .	. .	. .
1966	101	21	13	1	64	. .	1	1
Male	82	13	12	. .	56	. .	1	. .
Female	19	8	1	1	8	. .	. .	1
1965	115	36	5	. .	70	2	1	1
Male	82	19	4	. .	56	1	1	1
Female	33	17	1	. .	14	1	. .	. .
1964	85	27	8	3	44	1	2	. .
Male	70	20	8	2	38	1	1	. .
Female	15	7	. .	1	6	. .	1	. .
1963	80	16	7	. .	52	3	2	. .
Male	59	6	4	. .	46	2	1	. .
Female	21	10	3	. .	6	1	1	. .
1962	100	22	15	1	58	1	. .	3
Male	80	14	12	. .	51	1	. .	2
Female	20	8	3	1	7	. .	. .	1

Note: The cause of death numbers are as indicated in the Eighth Revision ICDA. In 1960-1967 the Seventh Revision of the ICDA was used.

percentage distribution of the most frequently used methods for each of the sexes for 1977 and the years, 1961-1976. The total distributions did not vary significantly. Although the number of female suicides (33) in 1977 was small and the percentage distribution may be statistically unreliable, 24 percent of the female suicides were accomplished with firearms compared with an average percentage of 36 percent for the 16 previous years. Firearms were most frequently used to commit suicide in 1977 by males (67 percent). Fifty-eight percent of the females used poison (traditionally the most frequent method of females) to commit suicide in 1977.

TABLE 46

SUICIDES TO RESIDENTS BY METHOD AND SEX: UTAH, 1961-1976, 1977

Cause	Percentage Each Cause					
	1977			1961-1976 Average		
	Total	Male	Female	Total	Male	Female
Total, E950-E959	100.0	100.0	100.0	100.0	100.0	100.0
Poisoning, E950-E952	29.4	23.1	57.6	26.5	20.1	47.1
Hanging and suffocation, E953	9.4	8.8	12.1	9.8	10.3	8.0
Firearms and explosives, E955	58.9	66.7	24.2	58.7	65.3	36.7
All others, E954, E956, E957, E958, E959	2.2	1.4	6.1	5.0	4.2	8.2

Table 47 summarizes suicidal deaths by age and sex for the years, 1968 through 1977. Table 48 shows the percentage distribution of suicides by age and sex for the years, 1977 and 1968 through 1976. The mean age in 1977 for male suicides was 38.6 years; for females it was 46.0 years. During the previous 9 years the mean ages for males and females were 43.0 and 42.0 years, respectively. The mean ages in 1977 may be statistically unreliable due to the small number of occurrences; however, they suggest for both males and females, that the critical age for suicide is about 40 years.

The current approach to accidental deaths is to report data by occurrence in the State, rather than to residents of the State. The most frequent cause of accidental death occurring in Utah was motor vehicle accidents. During 1977, 687 accidental deaths occurred in the State.

TABLE 47

DEATHS TO RESIDENTS DUE TO SUICIDE BY YEAR, SEX, AND AGE: UTAH, 1968-1977

Year and Sex	Total	Deaths Due to Suicide by Age Group							
		Under 15	15-24	25-34	35-44	45-54	55-64	65-74	75+
1977 total	180	2	42	35	29	28	24	14	6
Male	147	2	40	29	23	21	14	12	6
Female	33	. .	2	6	6	7	10	2	. .
1976 total	167	. .	28	38	24	31	28	13	5
Male	129	. .	23	31	18	20	23	10	4
Female	38	. .	5	7	6	11	5	3	1
1975 total	165	. .	44	36	26	21	15	15	8
Male	132	. .	37	32	18	15	10	13	7
Female	33	. .	7	4	8	6	5	2	1
1974 total	134	2	23	32	24	24	17	10	2
Male	104	1	17	24	19	20	12	10	1
Female	30	1	6	8	5	4	5	. .	1
1973 total	146	4	19	37	35	23	14	9	5
Male	108	3	16	25	25	15	12	7	5
Female	38	1	3	12	10	8	2	2	. .
1972 total	139	. .	21	26	29	26	25	6	6
Male	106	. .	20	18	20	20	18	5	5
Female	33	. .	1	8	9	6	7	1	1
1971 total	129	1	26	17	30	21	16	13	5
Male	88	1	22	9	15	15	13	9	4
Female	41	. .	4	8	15	6	3	4	1
1970 total	156	2	32	19	28	29	22	13	11
Male	114	2	25	12	16	23	17	10	9
Female	42	. .	7	7	12	6	5	3	2
1969 total	114	1	21	21	22	24	15	6	4
Male	87	. .	15	19	19	17	10	3	4
Female	27	1	6	2	3	7	5	3	. .
1968 total	130	2	20	29	26	20	19	7	7
Male	105	1	19	24	18	13	16	7	7
Female	25	1	1	5	8	7	3	. .	. .

TABLE 48

SUICIDES TO RESIDENTS BY AGE AND SEX: UTAH, 1968-1976 AND 1977

Age Group	Percentage Suicides by Year and Sex					
	1977			1968-1976		
	Total	Male	Female	Total	Male	Female
Total	100.0	100.0	100.0	100.0	100.0	100.0
Under 15	1.1	1.4	0.0	1.1	0.9	1.3
15-24	23.3	27.2	6.1	18.1	19.7	12.6
25-34	19.4	19.7	18.2	19.6	19.6	19.4
35-44	16.1	15.6	18.2	19.4	17.4	25.7
45-54	15.6	14.3	21.2	17.3	16.4	20.4
55-64	13.3	9.5	30.3	13.7	13.8	12.9
65-74	7.8	6.8	6.1	7.0	7.5	5.5
75 and older	3.3	4.1	0.0	3.9	5.5	2.2

Figure 11 illustrates the distribution by type of accidental death. Motor vehicle accidents accounted for 56 percent of the accidental fatalities. Falls accounted for 15 percent and aircraft and space transport, over 5 percent.

Figure 12 shows the distribution of accidents by district of occurrence. Over 60 percent of these deaths occurred along the Wasatch Front in Districts 2N, 2S, and 3. As over 80 percent of the State's population reside in these districts, it appears that the proportion of accidents that occurred there is less than expected, given the existing population distribution.

Figure 13 illustrates the 381 motor vehicle fatalities by type of accident. Thirty-eight percent of the fatalities resulted from a collision with another vehicle. Noncollision due to loss of vehicular control resulted in the death of 32 percent, and 16 percent were pedestrians.

Also shown in Figure 13 is the distribution of motor vehicle fatalities by type of victim. About two-fifths (43 percent) of all persons killed in motor vehicle accidents were drivers. Passengers comprised almost another third (28 percent) of the fatalities; pedestrians, one-fifth; and motorcyclists, less than one-tenth (7 percent).

The National Safety Council classifies accidental deaths according to activity or place of accident. Table 49 reflects this classification.

FIGURE 11. ACCIDENT FATALITIES OCCURRING IN UTAH BY TYPE, 1977

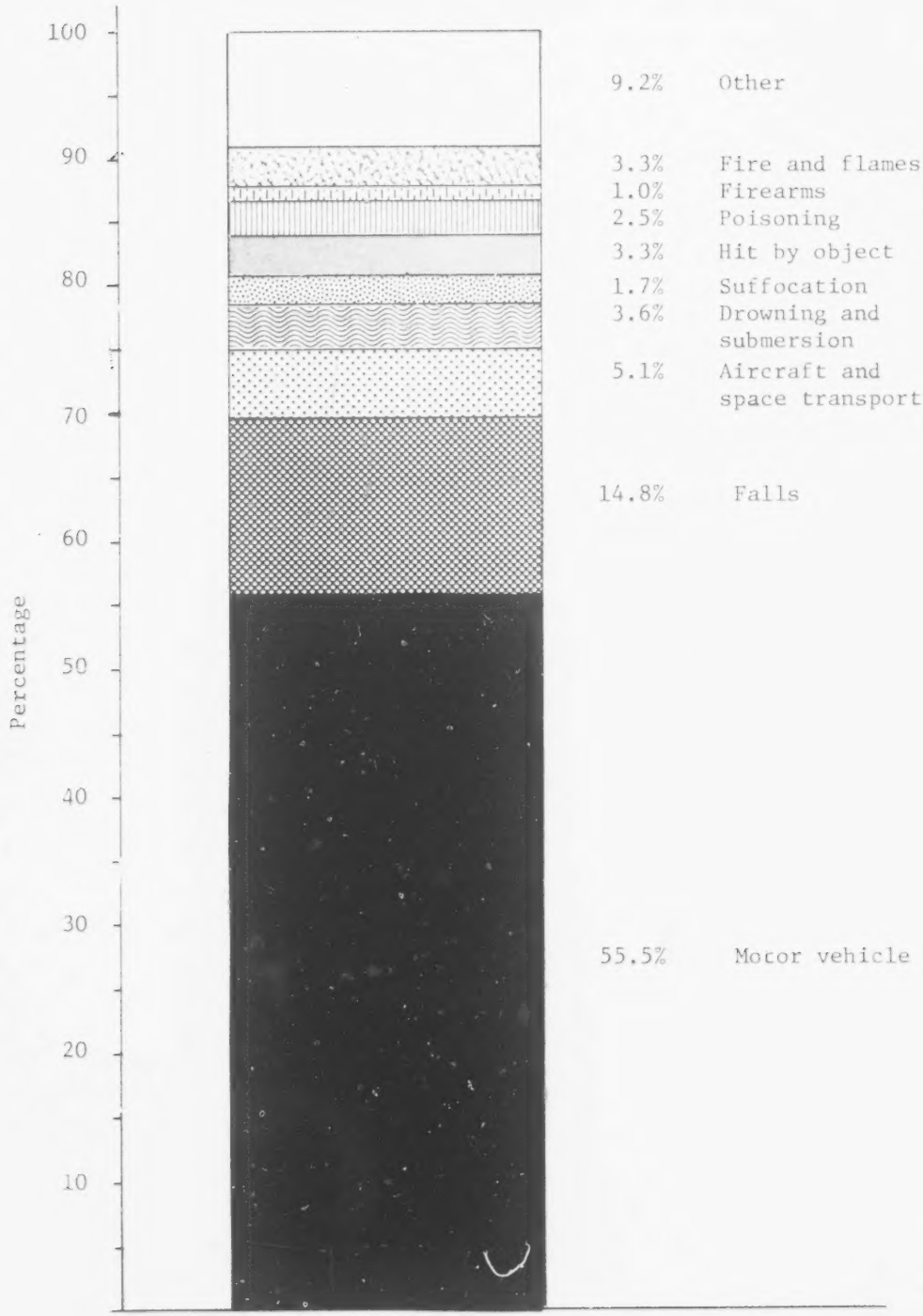


FIGURE 12. DEATHS OCCURRING IN UTAH FROM ACCIDENTS BY PLACE WHERE ACCIDENT OCCURRED, 1977

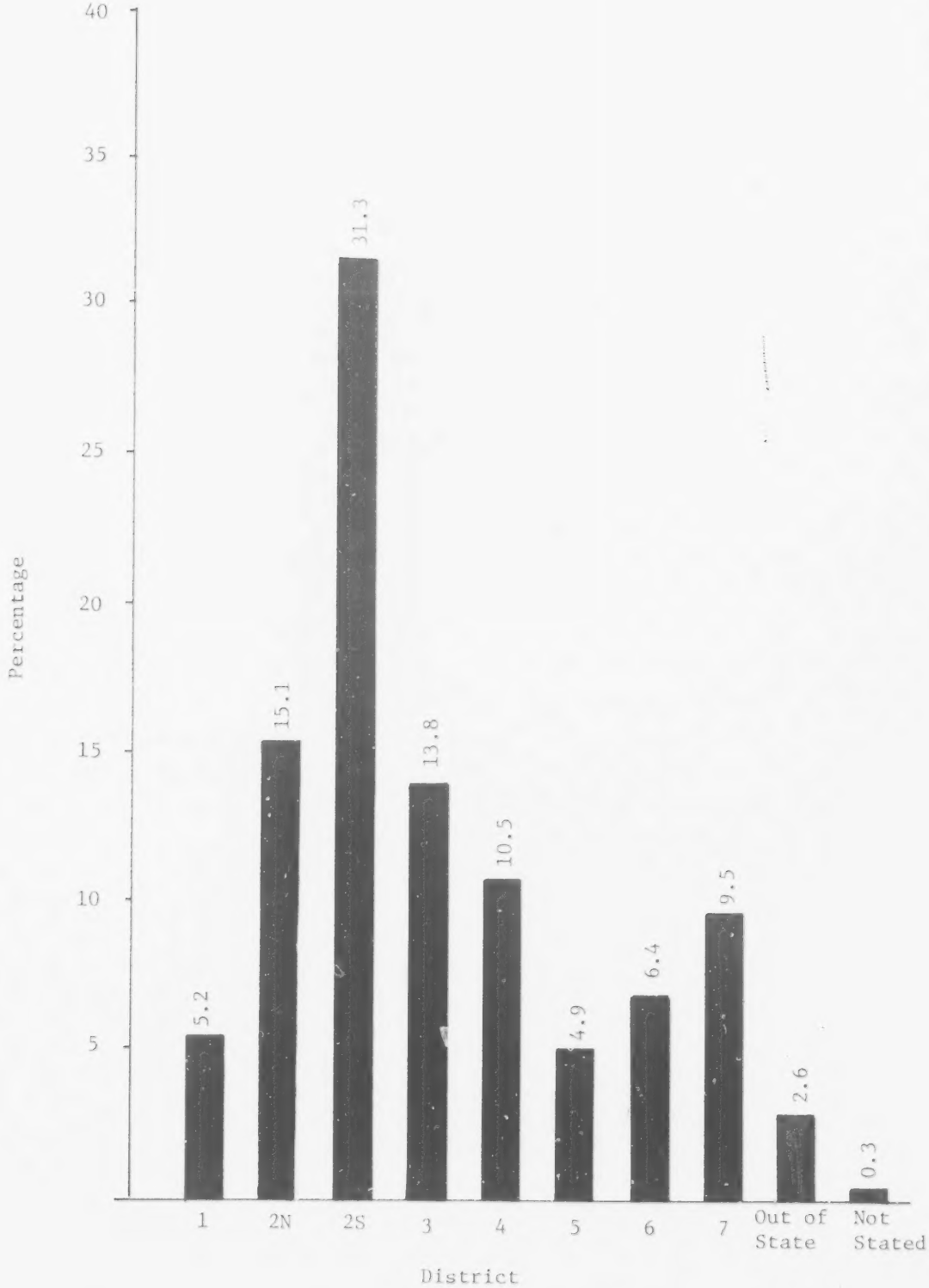
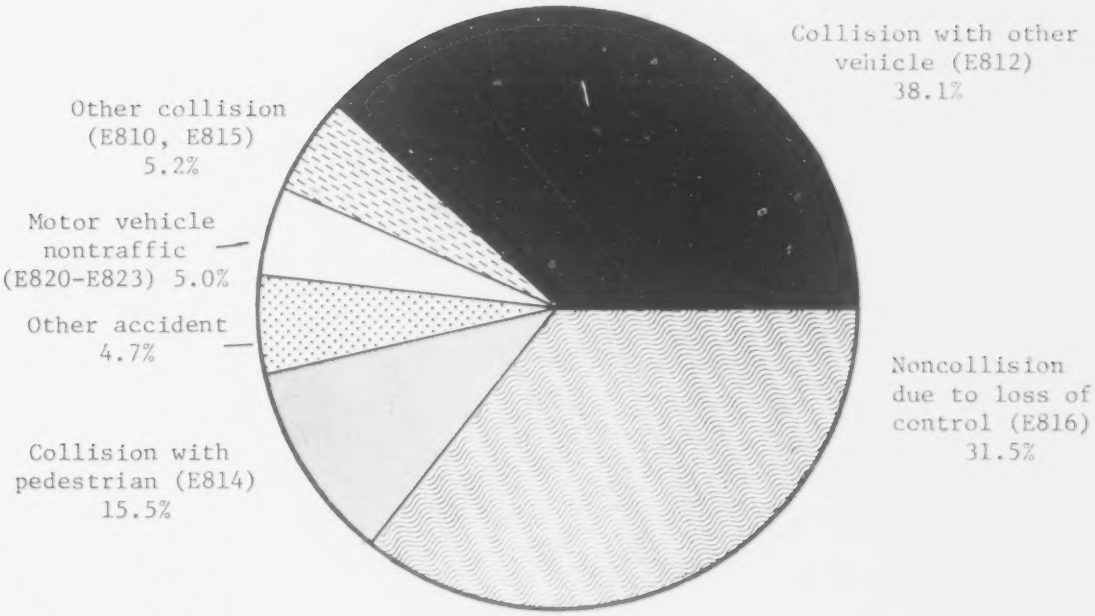
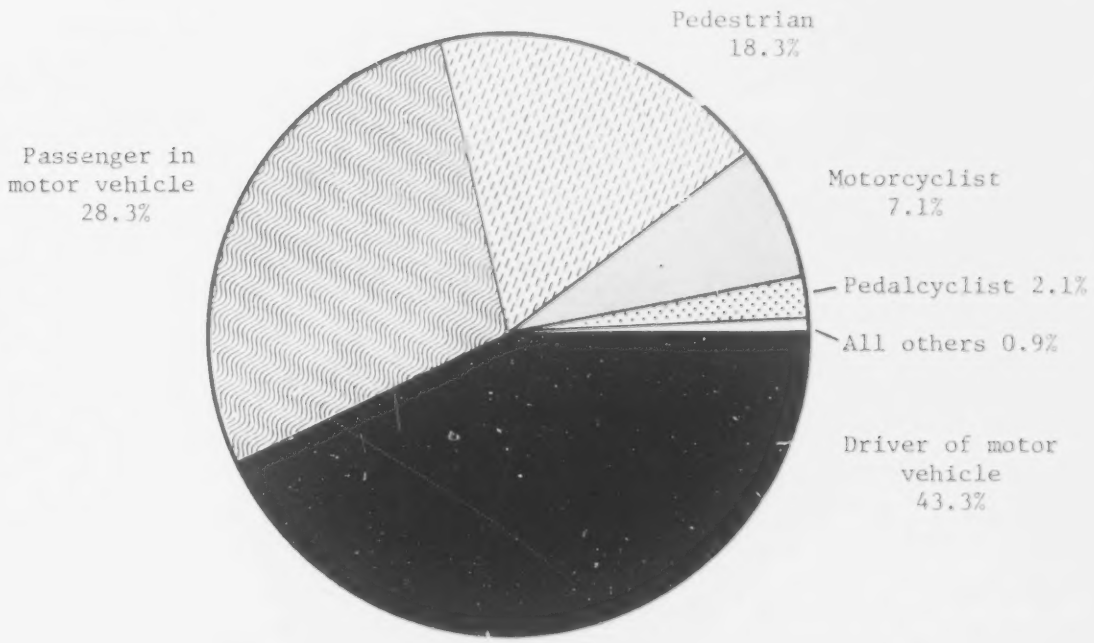


FIGURE 13. MOTOR VEHICLE ACCIDENTS OCCURRING IN UTAH, 1977

Type of Accident



Person Deceased



Seventeen percent of all accidents occurred at home. Forty-two percent (49) of the home accident fatalities were to persons age 65 and older.

TABLE 49

ACCIDENTAL DEATHS BY ACTIVITY OR PLACE (NUMBER AND RATE): UTAH, 1977

Activity or Place of Accident	Number	Rate per 100,000 Population
Total	687	54.1
Motor vehicle	381	30.0
Work	80	6.3
Home	117	9.2
Public nonmotor vehicle	309	24.3

Includes 27 work and 6 home motor vehicle deaths.

The use of firearms or explosives resulted in the death of 146 Utah residents in 1977; of these, 130 were men and 16 were women (Table A-43). Suicides accounted for 73 percent of the firearm deaths; assaults, 18 percent; and accidents, 8 percent. One percent could not be determined whether accidentally or purposely inflicted.

Table 50 also summarizes deaths caused by firearms or explosives since 1967. The total number of deaths due to this cause increased by 47 deaths over 1967 and decreased 6 from 1976. The number of accidental deaths was the lowest since 1967. The number of suicidal deaths increased by six from 1976 and was the highest number of suicidal deaths ever reported in Utah. The number of deaths due to assault with firearms decreased by 11 from 1976.

Seventy-five Utah residents died as a result of poisoning (Table 51). Males accounted for 65 percent of these deaths; females, 35 percent. Seventy-one percent of the poisoning deaths were suicides.

TABLE 50

VIOLENT DEATHS TO RESIDENTS DUE TO FIREARM AND EXPLOSIVE MATERIALS
BY TYPE, SEX, AND YEAR: UTAH, 1968-1977

Type of Death and Sex of Deceased	Violent Deaths to Residents by Year									
	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968
Total violent deaths due to firearm missiles and explosive materials E922-E985	146	152	148	130	139	141	130	137	102	125
Male	130	126	124	105	113	115	100	113	89	105
Female	16	26	24	25	26	26	30	24	13	20
Accident, E922-E923	12	13	22	14	20	23	22	27	25	20
Male	9	13	16	13	19	20	21	22	22	20
Female	3	. .	6	1	1	3	1	5	3	. .
Suicide and self-inflicted injury, E955	106	98	101	77	85	83	81	83	56	76
Male	98	80	90	63	68	70	62	72	49	69
Female	8	18	11	14	17	13	19	11	7	7
Assault, E965	26	37	17	30	21	28	17	22	18	24
Male	21	30	12	22	13	19	8	14	15	12
Female	5	7	5	8	8	9	9	8	3	12
Undetermined whether accidentally or purposely inflicted, E985	2	4	8	9	13	7	10	5	3	5
Male	2	3	6	7	13	6	9	5	3	4
Female	. .	1	2	2	. .	1	1	. .	. .	1

[1]Coded according to Seventh Revision I.C.D.A.

TABLE 51

DEATHS TO RESIDENTS DUE TO POISONING BY TYPE AND YEAR: UTAH, 1968-1977

I.C.D.A. Code	Deaths Due to Poisoning by Year									
	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968
Total	75	65	73	84	63	60	50	75	58	50
Accident										
Total	13	16	23	25	19	18	18	22	14	11
Drugs and medicants, E850-E859	5	4	5	9	10	6	7	9	6	3
Other solid or liquid substances E860-E869	5	3	3	5	5	7	5	4	2	1
Gases and vapors, E870-E877	3	9	15	11	4	5	6	9	6	7
Suicide										
Total	53	41	41	48	39	31	28	49	43	35
Solid or liquid substances, E950	35	22	24	33	26	19	17	30	23	18
Other gases, E952	18	19	17	15	13	12	11	19	20	17
Undetermined Whether Accidentally or Purposely Inflicted										
Total	9	8	9	11	5	11	4	4	3	4
Solid or liquid substances, E980	9	6	7	8	4	9	4	3	2	4
Other gases, E982	. .	2	2	3	1	2	. .	1	1	. .

[1]Coded according to the Seventh Revision I.C.D.A.

REFERENCE TABLES

TABLE A-1

LIVE BIRTHS BY COUNTY OF OCCURRENCE, SEX, ATTENDANT AND HOSPITAL DELIVERY: UTAH, 1977

County of Occurrence	Live Births					
	Total	Male	Female	Attended by Physician	Attended by Midwife	Delivered at Hospital
Total	38,855	19,960	18,895	38,025	148	38,278
District 1	2,643	1,318	1,325	2,632	. .	2,624
Box Elder	676	332	344	673	. .	670
Cache	1,967	986	981	1,959	. .	1,954
Rich	. .	. .	. .	. .	. .	. .
District 2N	7,274	3,737	3,537	6,978	1	7,226
Davis	2,472	1,284	1,188	2,178	1	2,443
Morgan	2	2	. .	2	. .	. .
Weber	4,800	2,451	2,349	4,798	. .	4,783
District 2S	16,283	8,325	7,958	16,104	3	16,092
Salt Lake	16,101	8,246	7,855	15,928	3	15,916
Tooele	182	79	103	176	. .	176
District 3	7,749	3,991	3,758	7,630	1	7,659
Summit	38	20	18	34	. .	33
Utah	7,473	3,848	3,625	7,359	1	7,389
Wasatch	238	123	115	237	. .	237
District 4	1,065	566	499	1,015	. .	1,053
Juab	122	70	52	80	. .	121
Millard	208	106	102	207	. .	207
Sanpete	349	171	178	343	. .	342
Sevier	386	219	167	385	. .	383
Wayne	. .	. .	. .	. .	. .	. .
District 5	1,889	1,004	885	1,731	143	1,700
Beaver	116	64	52	116	. .	116
Garfield	94	47	47	94	. .	94
Iron	605	351	254	599	. .	598
Kane	125	59	66	123	. .	123
Washington	949	483	466	799	143	769
District 6	906	465	441	902	. .	899
Daggett	. .	. .	. .	. .	. .	. .
Duchesne	471	232	239	471	. .	468
Uintah	435	233	202	431	. .	431
District 7	1,046	554	492	1,033	. .	1,025
Carbon	503	260	243	503	. .	503
Emery	4	1	3	2	. .	. .
Grand	236	127	109	232	. .	232
San Juan	303	166	137	296	. .	290

TABLE A-2

LIVE BIRTHS BY SEX, SINGLE AND MULTIPLE, BIRTH ORDER
AND RESIDENCE OF MOTHER: UTAH, 1977

Residence of Mother	Total Live Births	Live Births by Sex		Single and Multiple Births		Live Births by Birth Order						
		Male	Female	Single	Multiple	First	Second	Third	Fourth	Fifth	Sixth & Higher	Not Stated
Total	37,956	19,496	18,460	37,301	655	11,541	9,722	6,873	4,171	2,318	2,375	956
District 1	2,543	1,267	1,276	2,507	36	800	665	442	288	174	168	6
Box Elder	826	414	412	810	16	234	220	148	111	52	60	1
Cache	1,648	829	819	1,628	20	550	423	280	169	116	105	5
Rich	69	24	45	69	. .	16	22	14	8	6	3	. .
District 2N	7,235	3,733	3,502	7,100	135	2,208	1,882	1,419	844	446	405	31
Davis	3,578	1,884	1,694	3,512	66	974	887	735	450	266	247	19
Morgan	125	76	49	123	2	32	32	17	21	7	15	1
Weber	3,532	1,773	1,759	3,465	67	1,202	963	667	373	173	143	11
District 2S	15,588	7,955	7,633	15,325	263	4,733	4,123	2,900	1,600	822	801	609
Salt Lake	15,012	7,657	7,355	14,753	259	4,592	3,954	2,791	1,538	777	770	590
Tooele	576	298	278	572	4	141	169	109	62	45	31	19
District 3	7,556	3,883	3,673	7,433	123	2,484	1,797	1,123	815	526	566	245
Summit	203	116	87	199	4	47	48	43	19	16	10	20
Utah	7,121	3,653	3,468	7,006	115	2,419	1,693	1,038	764	500	531	176
Wasatch	232	114	118	228	4	18	56	42	32	10	25	49
District 4	1,171	617	554	1,147	24	280	297	236	154	78	117	9
Juab	142	73	69	140	2	41	39	20	21	8	11	2
Millard	243	124	119	237	6	46	60	48	34	17	35	3
Piute	21	7	14	21	. .	8	2	5	3	2	1	. .
Sanpete	368	181	187	362	6	81	92	85	40	27	41	2
Sevier	359	208	151	349	10	96	92	71	51	20	27	2
Wayne	38	24	14	38	. .	8	12	7	5	4	2	. .
District 5	1,511	804	707	1,484	27	382	345	287	201	107	158	31
Beaver	115	65	50	113	2	30	28	24	20	6	6	1
Garfield	101	49	52	99	2	29	16	25	14	4	10	3
Iron	523	302	221	512	11	146	130	105	59	31	49	3
Kane	111	60	51	107	4	17	30	20	12	7	6	19
Washington	661	328	333	653	8	160	141	113	96	59	87	5
District 6	993	512	481	974	19	263	237	185	127	79	87	15
Daggett	18	6	12	18	. .	2	5	3	5	3	. .	. .
Duchesne	406	211	195	402	4	105	103	70	56	23	40	9
Uintah	569	295	274	554	15	156	129	112	66	53	47	6
District 7	1,359	725	634	1,331	28	391	376	281	142	86	73	10
Carbon	541	277	264	528	13	174	154	128	43	23	14	5
Emery	289	160	129	283	6	72	83	69	32	17	14	2
Grand	189	100	89	189	. .	63	65	32	15	9	5	. .
San Juan	340	188	152	331	9	82	74	52	52	37	40	3

TABLE A-3

LIVE BIRTHS BY RESIDENCE OF MOTHER AND RACE OF CHILD: UTAH, 1977

Residence of Mother	Total Live Births	Live Births by Race				
		White	Black	Indian	Other Nonwhite	Race Not Stated
Total	37,956	36,679	195	538	485	59
District 1	2,543	2,496	1	21	25	. .
Box Elder	826	797	. .	20	9	. .
Cache	1,648	1,630	1	1	16	. .
Rich	69	69	. .	. .	. .	. .
District 2N	7,235	7,010	78	23	118	6
Davis	3,578	3,448	42	9	76	3
Morgan	125	123	. .	1	1	. .
Weber	3,532	3,439	36	13	41	3
District 2S	15,588	15,064	108	123	249	44
Salt Lake	15,012	14,510	106	112	240	44
Tooele	576	554	2	11	9	. .
District 3	7,556	7,403	6	61	79	7
Summit	203	201	. .	. .	1	1
Utah	7,121	6,971	6	60	78	6
Wasatch	232	231	. .	1	. .	. .
District 4	1,171	1,156	. .	11	3	1
Juab	142	140	. .	1	. .	1
Millard	243	238	. .	3	2	. .
Piute	21	21	. .	. .	. .	. .
Sanpete	368	364	. .	3	1	. .
Sevier	359	355	. .	4	. .	. .
Wayne	38	38	. .	. .	. .	. .
District 5	1,511	1,478	1	29	3	. .
Beaver	115	113	. .	1	1	. .
Garfield	101	98	. .	3	. .	. .
Iron	523	505	1	16	1	. .
Kane	111	109	. .	2	. .	. .
Washington	661	653	. .	7	1	. .
District 6	993	892	. .	96	4	1
Daggett	18	18	. .	. .	. .	. .
Duchesne	406	386	. .	17	2	1
Uintah	569	488	. .	79	2	. .
District 7	1,359	1,180	1	174	4	. .
Carbon	541	536	1	3	1	. .
Emery	289	286	. .	3	. .	. .
Grand	189	181	. .	6	2	. .
San Juan	340	177	. .	162	1	. .

TABLE A-4

LIVE BIRTHS BY MONTH OF OCCURRENCE AND RESIDENCE OF MOTHER: UTAH, 1977

Residence of Mother	Total Live Births	Live Births by Month of Occurrence											
		January	February	March	April	May	June	July	August	September	October	November	December
Total	37,956	2,925	2,795	3,303	3,180	3,298	3,322	3,370	3,224	3,234	3,229	2,933	3,143
District 1	2,543	166	175	255	260	216	211	216	197	224	202	175	246
Box Elder	826	44	62	88	81	76	64	58	77	75	57	58	86
Cache	1,648	118	109	160	173	135	142	151	118	143	135	112	152
Rich	69	4	4	7	6	5	5	7	2	6	10	5	8
District 2N	7,235	549	545	605	591	678	645	623	615	599	623	600	562
Davis	3,578	251	279	288	275	337	315	307	301	311	310	314	290
Morgan	125	11	6	15	15	12	12	11	14	8	7	8	6
Weber	3,532	287	260	302	301	329	318	305	300	280	306	278	266
District 2S	15,588	1,234	1,125	1,386	1,274	1,360	1,351	1,406	1,331	1,316	1,315	1,183	1,307
Salt Lake	15,012	1,176	1,091	1,343	1,219	1,319	1,299	1,360	1,286	1,262	1,269	1,130	1,258
Tooele	576	58	34	43	55	41	52	46	45	54	46	53	49
District 3	7,556	544	584	670	632	663	652	664	637	688	647	580	595
Summit	203	13	17	12	19	22	19	15	17	19	17	21	12
Utah	7,121	509	551	640	599	624	613	617	600	646	618	537	567
Wasatch	232	22	16	18	14	17	20	32	20	23	12	22	16
District 4	1,171	107	84	87	90	96	102	108	115	93	101	87	101
Juab	142	9	8	7	8	15	10	13	14	10	16	14	18
Millard	243	21	21	14	21	19	25	18	24	20	22	22	16
Piute	21	1	1	2	3	3	1	2	1	1	. .	3	3
Sanpete	368	34	26	34	26	27	36	33	26	33	30	26	37
Sevier	359	36	25	26	31	31	25	40	46	26	30	22	21
Wayne	38	6	3	4	1	1	5	2	4	3	3	. .	6
District 5	1,511	126	106	113	129	115	139	161	132	116	120	130	124
Beaver	115	9	12	8	8	12	8	6	12	9	12	9	10
Garfield	101	10	4	8	6	10	5	13	9	10	9	5	12
Iron	523	48	35	40	52	39	58	54	44	29	42	35	47
Kane	111	13	5	8	12	10	8	10	7	10	10	12	6
Washington	661	46	50	49	51	44	60	78	60	58	47	69	49
District 6	993	100	73	77	77	66	84	84	78	82	105	81	86
Daggett	18	2	1	. .	1	3	3	1	1	. .	2	1	3
Duchesne	406	41	29	33	27	36	36	41	33	33	45	25	27
Uintah	569	57	43	44	49	27	45	42	44	49	58	55	56
District 7	1,359	99	103	110	127	104	138	108	119	116	116	97	122
Carbon	541	43	47	46	52	33	53	42	42	47	54	32	50
Emery	289	26	16	25	20	28	37	15	26	31	20	23	22
Grand	189	8	17	12	14	12	17	22	24	13	11	16	23
San Juan	340	22	23	27	41	31	31	29	27	25	31	26	27

TABLE A-5

LIVE BIRTHS BY RESIDENCE OF MOTHER AND BIRTH WEIGHT OF CHILD: UTAH, 1977

Residence of Mother	Total Live Births	Live Births by Birth Weight of Child (Grams and Pounds)									
		1000 or less (2 lbs. 3 oz. or less)	1001-1500 (2 lbs. 3 oz.-3 lbs. 4 oz.)	1501-2000 (3 lbs 5 oz.-4 lbs. 6 oz.)	2001-2500 (4 lbs. 7 oz.-5 lbs. 8 oz.)	2501-3000 (5 lbs. 9 oz.-6 lbs. 9 oz.)	3001-3500 (6 lbs. 10 oz.-7 lbs. 11 oz.)	3501-4000 (7 lbs. 12 oz.-8 lbs. 14 oz.)	4001-4500 (8 lbs 14 oz.-9 lbs. 14 oz.)	4501 & over (9 lbs. 15 oz. & over)	Not Stated
Total	37,956	101	137	358	1,391	5,915	14,813	11,333	3,178	513	217
District 1	2,543	8	12	18	77	394	1,066	734	209	21	4
Box Elder	826	1	4	8	31	129	335	235	75	7	1
Cache	1,648	6	8	10	41	254	700	483	129	14	3
Rich	69	1	. .	. .	5	11	31	16	5	. .	. .
District 2N	7,235	15	21	77	284	1,165	2,845	2,168	540	94	26
Davis	3,578	3	11	46	136	555	1,376	1,116	272	53	10
Morgan	125	1	. .	2	6	22	45	40	9	. .	. .
Weber	3,532	11	10	29	142	588	1,424	1,012	259	41	16
District 2S	15,588	41	50	165	606	2,558	6,009	4,664	1,238	209	48
Salt Lake	15,012	41	48	161	578	2,449	5,797	4,500	1,187	204	47
Tooele	576	. .	2	4	28	109	212	164	51	5	1
District 3	7,556	19	26	58	225	1,024	2,880	2,374	751	123	76
Summit	203	1	3	2	12	29	79	61	14	. .	2
Utah	7,121	17	23	52	201	952	2,714	2,248	720	123	71
Wasatch	232	1	. .	4	12	43	87	65	17	. .	3
District 4	1,171	8	4	11	38	153	477	337	116	15	12
Juab	142	. .	. .	3	8	22	54	40	14	1	. .
Millard	243	. .	2	1	8	29	94	71	27	9	2
Piute	21	. .	. .	. .	1	4	9	4	3	. .	. .
Sanpete	368	6	2	2	5	53	156	95	39	2	8
Sevier	359	2	. .	4	15	43	145	116	30	2	2
Wayne	38	. .	. .	1	1	2	19	11	3	1	. .
District 5	1,511	2	5	4	49	227	591	451	154	18	10
Beaver	115	. .	. .	. .	9	19	47	29	10	1	. .
Garfield	101	1	1	. .	5	14	43	27	9	. .	1
Iron	523	1	2	2	16	81	220	140	50	6	5
Kane	111	. .	. .	1	3	16	48	30	10	3	. .
Washington	661	. .	2	1	16	97	233	225	75	8	4
District 6	993	5	9	6	40	171	391	249	75	16	31
Daggett	18	. .	. .	. .	. .	3	11	4	. .	. .	. .
Duchesne	406	2	3	2	13	67	156	105	36	7	15
Uintah	569	3	6	4	27	101	224	140	39	9	16
District 7	1,359	3	10	19	72	223	554	356	95	17	10
Carbon	541	. .	7	10	25	96	222	138	29	8	6
Emery	289	2	. .	4	13	44	104	91	29	1	1
Grand	189	1	1	2	15	24	77	51	14	3	1
San Juan	340	. .	2	3	19	59	151	76	23	5	2

TABLE A-6

LIVE BIRTHS BY RESIDENCE OF MOTHER AND PRENATAL VISITS: UTAH, 1977

Residence of Mother	Live Births by Prenatal Visits								
	Total	None	1-5	6-9	10-14	15-18	19-27	27+	Not Stated
Total	37,956	153	1,448	7,547	24,560	2,324	341	37	1,546
District 1	2,543	4	99	540	1,741	112	9	. .	38
Box Elder	826	1	36	215	522	39	5	. .	8
Cache	1,648	3	57	306	1,182	73	4	. .	23
Rich	69	. .	6	19	37	. .	. .	. .	7
District 2N	7,235	25	185	1,029	5,671	183	19	5	118
Davis	3,578	12	104	623	2,604	144	19	5	67
Morgan	125	. .	2	11	111	. .	. .	. .	1
Weber	3,532	13	79	395	2,956	39	. .	. .	50
District 2S	15,588	51	419	2,620	10,122	1,232	179	19	946
Salt Lake	15,012	51	403	2,554	9,766	1,201	168	18	851
Tooele	576	. .	16	65	356	31	11	1	95
District 3	7,556	20	313	1,776	4,671	510	78	7	181
Summit	203	. .	19	43	121	12	2	. .	6
Utah	7,121	20	265	1,603	4,486	493	76	7	171
Wasatch	232	. .	29	130	64	5	. .	. .	4
District 4	1,171	8	72	289	633	122	22	2	23
Juab	142	1	5	32	68	22	9	. .	5
Millard	243	. .	13	51	122	46	5	. .	6
Piute	21	. .	. .	7	13	1	. .	. .	. .
Sanpete	368	5	24	83	205	32	6	2	11
Sevier	359	2	27	104	202	21	2	. .	1
Wayne	38	. .	3	12	23	. .	. .	. .	. .
District 5	1,511	5	118	550	709	73	21	3	32
Beaver	115	. .	6	25	75	7	2	. .	. .
Garfield	101	. .	8	41	45	4	1	. .	2
Iron	523	2	30	141	296	34	14	. .	6
Kane	111	2	13	33	44	4	2	2	11
Washington	661	1	61	310	249	24	2	1	13
District 6	993	8	88	287	513	53	10	. .	34
Daggett	18	. .	. .	10	8	. .	. .	. .	. .
Duchesne	406	2	40	154	179	15	1	. .	15
Uintah	569	6	48	123	326	38	9	. .	19
District 7	1,359	32	154	456	500	39	3	1	174
Carbon	541	2	37	197	214	7	2	. .	82
Emery	289	2	27	84	135	15	. .	. .	26
Grand	189	. .	20	60	90	14	1	1	3
San Juan	340	28	70	115	61	3	. .	. .	63

TABLE A-7

LIVE BIRTHS BY RESIDENCE OF MOTHER AND MONTH PRENATAL CARE BEGAN: UTAH, 1977

Residence of Mother	Total Live Births	None	Live Births by Month Prenatal Care Began									
			1	2	3	4	5	6	7	8	9	Not Stated
Total	37,956	94	3,390	16,383	11,072	3,306	1,279	596	333	151	69	1,283
District 1	2,543	3	109	912	1,023	251	94	53	40	13	10	35
Box Elder	826	. .	52	351	237	94	36	20	19	4	5	8
Cache	1,648	3	56	539	769	148	54	25	21	9	5	19
Rich	69	. .	1	22	17	9	4	8	. .	. .	. .	8
District 2N	7,235	19	784	3,684	1,748	539	168	104	52	19	10	108
Davis	3,578	9	336	1,777	938	290	80	52	23	7	5	61
Morgan	125	. .	10	77	25	5	5	1	1	. .	. .	1
Weber	3,532	10	438	1,830	785	244	83	51	28	12	5	46
District 2S	15,588	28	1,405	6,317	4,694	1,418	559	238	112	44	21	752
Salt Lake	15,012	28	1,350	6,104	4,515	1,344	544	228	107	43	16	733
Tooele	576	. .	55	213	179	74	15	10	5	1	5	19
District 3	7,556	12	688	3,626	2,140	567	218	87	51	33	10	124
Summit	203	. .	20	78	55	23	13	5	3	3	. .	3
Utah	7,121	12	660	3,478	2,002	505	193	74	45	26	8	118
Wasatch	232	. .	8	70	83	39	12	8	3	4	2	3
District 4	1,171	3	78	480	357	125	57	25	19	7	1	19
Juab	142	1	22	58	40	13	5	2	. .	. .	. .	1
Millard	243	. .	17	101	71	28	10	5	4	2	1	4
Piute	21	. .	1	11	8	. .	. .	. .	1	. .	. .	. .
Sanpete	368	1	25	119	117	46	23	15	10	2	. .	10
Sevier	359	1	11	172	109	36	18	2	4	3	. .	3
Wayne	38	. .	2	19	12	2	1	1	. .	. .	. .	1
District 5	1,511	4	223	573	370	161	61	28	31	15	8	37
Beaver	115	. .	12	37	38	13	4	4	4	1	2	. .
Garfield	101	. .	11	44	19	18	3	. .	2	2	. .	2
Iron	523	2	139	200	102	42	18	7	4	2	1	6
Kane	111	2	13	49	22	7	4	3	1	. .	. .	10
Washington	661	. .	48	243	189	81	32	14	20	10	5	19
District 6	993	3	42	396	316	112	42	20	12	10	3	37
Daggett	18	. .	. .	7	8	2	1	. .	. .	. .	. .	. .
Duchesne	406	. .	15	160	132	48	21	10	5	3	. .	12
Uintah	569	3	27	229	176	62	20	10	7	7	3	25
District 7	1,359	22	61	395	424	133	80	41	16	10	6	171
Carbon	541	1	17	156	195	50	32	10	3	2	. .	75
Emery	289	. .	16	110	91	27	11	8	1	. .	. .	25
Grand	189	. .	20	77	52	17	10	6	4	. .	1	2
San Juan	340	21	8	52	86	39	27	17	8	8	5	69

TABLE A-8

LIVE BIRTHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1977

Residence of Mother	Births	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	37,956	35	4,233	14,356	11,477	5,640	1,813	365	21	16
District 1	2,543	1	244	1,024	741	360	144	25	. .	4
Box Elder	826	1	119	292	236	119	51	5	. .	3
Cache	1,648	. .	119	701	486	231	93	17	. .	1
Rich	69	. .	6	31	19	10	. .	3	. .	. .
District 2N	7,235	5	851	2,650	2,178	1,147	333	66	5	. .
Davis	3,578	4	369	1,190	1,132	642	197	41	3	. .
Morgan	125	. .	13	41	31	29	10	1	. .	. .
Weber	3,532	1	469	1,419	1,015	476	126	24	2	. .
District 2S	15,588	18	1,820	5,558	4,920	2,412	728	120	6	6
Salt Lake	15,012	17	1,724	5,336	4,776	2,337	695	116	6	5
Tooele	576	1	96	222	144	75	33	4	. .	1
District 3	7,556	6	608	3,332	2,155	1,010	346	90	5	4
Summit	203	1	23	81	51	36	8	3	. .	. .
Utah	7,121	5	556	3,161	2,038	945	324	83	5	4
Wasatch	232	. .	29	90	66	29	14	4	. .	. .
District 4	1,171	. .	166	410	341	166	68	20	. .	. .
Juab	142	. .	30	47	36	18	10	1	. .	. .
Millard	243	. .	22	87	73	41	13	7	. .	. .
Piute	21	. .	4	4	8	4	1	. .	. .	. .
Sanpete	368	. .	43	122	114	55	25	9	. .	. .
Sevier	359	. .	65	133	97	43	18	3	. .	. .
Wayne	38	. .	2	17	13	5	1	. .	. .	. .
District 5	1,511	1	154	555	447	240	90	21	2	1
Beaver	115	. .	19	37	40	16	3	. .	. .	. .
Garfield	101	. .	17	25	41	10	7	1	. .	. .
Iron	523	. .	44	205	157	83	28	6	. .	. .
Kane	111	. .	12	48	35	10	4	2	. .	. .
Washington	661	1	62	240	174	121	48	12	2	1
District 6	993	. .	168	336	283	140	54	11	1	. .
Daggett	18	. .	2	2	9	4	1	. .	. .	. .
Duchesne	406	. .	70	132	118	61	19	6	. .	. .
Uintah	569	. .	96	202	156	75	34	5	1	. .
District 7	1,359	4	222	491	412	165	50	12	2	1
Carbon	541	2	93	209	170	48	16	2	1	. .
Emery	289	1	39	105	87	43	9	5	. .	. .
Grand	189	. .	34	70	61	15	7	2	. .	. .
San Juan	340	1	56	107	94	59	18	3	1	1

TABLE A-9

LIVE BIRTHS BY AGE OF MOTHER BY RACE AND BIRTH ORDER OF CHILD: UTAH, 1977

Race and Birth Order of Child	Total Births	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Not Stated
Total all races	37,956	35	4,233	14,356	11,477	5,640	1,813	365	21	16
1st child	11,541	29	3,165	6,290	1,697	314	39	6	. .	1
2nd child	9,722	1	723	5,206	3,045	642	88	12	. .	5
3rd child	6,873	. .	74	1,977	3,497	1,144	160	15	1	5
4th child	4,171	. .	12	369	2,049	1,427	276	33	3	2
5th child	2,318	. .	1	63	753	1,066	371	63	1	. .
6th and over	2,375	. .	. .	13	242	1,000	869	234	16	1
Not stated	956	5	258	438	194	47	10	2	. .	2
White	36,679	28	4,046	13,898	11,096	5,465	1,757	355	20	14
1st child	11,126	23	3,033	6,104	1,620	301	38	6	. .	1
2nd child	9,410	1	693	5,056	2,956	606	83	11	. .	4
3rd child	6,679	. .	68	1,916	3,413	1,107	154	15	1	5
4th child	4,043	. .	9	349	1,982	1,401	266	31	3	2
5th child	2,258	. .	1	56	732	1,040	366	62	1	. .
6th and over	2,297	. .	. .	12	229	972	840	228	15	1
Not stated	866	4	242	405	164	38	10	2	. .	1
Black	195	3	28	86	51	19	6	2	. .	. .
1st child	74	3	19	42	9	1	. .	. .	. .	. .
2nd child	59	. .	7	27	19	6	. .	. .	. .	. .
3rd child	25	. .	. .	8	11	4	2	. .	. .	. .
4th child	14	. .	. .	2	7	2	3	. .	. .	. .
5th child	7	. .	. .	1	1	4	. .	1	. .	. .
6th and over	7	. .	. .	1	2	2	1	1	. .	. .
Not stated	9	. .	2	5	2	. .	. .	. .	. .	. .
Indian	538	3	124	190	130	59	26	4	1	1
1st child	168	3	91	59	14	1	. .	. .	. .	. .
2nd child	126	. .	19	72	27	5	2	. .	. .	1
3rd child	79	. .	5	32	34	8	. .	. .	. .	. .
4th child	67	. .	3	15	35	11	2	1	. .	. .
5th child	37	. .	. .	6	15	13	3	. .	. .	. .
6th and over	45	. .	. .	. .	3	19	19	3	1	. .
Not stated	16	. .	6	6	2	2	. .	. .	. .	. .
Other nonwhite	485	. .	25	163	181	88	24	4	. .	. .
1st child	168	. .	20	83	53	11	1	. .	. .	. .
2nd child	122	. .	4	48	42	24	3	1	. .	. .
3rd child	86	. .	1	20	37	24	4	. .	. .	. .
4th child	47	. .	. .	3	25	13	5	1	. .	. .
5th child	15	. .	. .	. .	5	8	2	. .	. .	. .
6th and over	25	. .	. .	. .	7	7	9	2	. .	. .
Not stated	22	. .	. .	9	12	1	. .	. .	. .	. .
Race not stated	59	1	10	19	19	9	. .	. .	. .	1
1st child	5	. .	2	2	1	. .	. .	. .	. .	. .
2nd child	5	. .	. .	3	1	1	. .	. .	. .	. .
3rd child	4	. .	. .	1	2	1	. .	. .	. .	. .
4th child	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
5th child	1	. .	. .	. .	. .	1	. .	. .	. .	. .
6th and over	1	. .	. .	. .	1	. .	. .	. .	. .	. .
Birth Order not stated	43	1	8	13	14	6	. .	. .	. .	1

TABLE A-10

LIVE BIRTHS BY AGE OF MOTHER, RACE OF CHILD, AND MONTH PREMATAL CARE BEGAN: UTAH, 1977

Age of Mother by Race of Child	Total Live Births	Live Births by Month Prenatal Care Began										
		None	1	2	3	4	5	6	7	8	9	Not Stated
All ages, races	37,956	94	3,390	16,383	11,072	3,306	1,279	596	333	151	69	1,283
Under 15	35	. .	. .	6	5	5	6	2	2	1	1	7
15-19	4,233	22	304	1,311	1,132	616	299	153	76	42	14	264
20-24	14,356	27	1,425	6,452	4,112	1,111	399	203	117	37	27	446
25-29	11,477	19	1,047	5,258	3,377	868	315	132	62	32	17	350
30-34	5,640	15	453	2,487	1,743	476	178	58	51	28	6	145
35-39	1,813	11	132	721	578	183	67	41	17	8	3	52
40-44	365	. .	28	134	115	44	14	[illegible]	7	3	. .	13
45 and over	21	. .	1	10	4	2	. .	. .	1	. .	. .	3
Age not stated	16	. .	. .	4	6	1	1	. .	. .	. .	1	3
White	36,679	63	3,285	16,061	10,790	3,182	1,205	531	301	123	52	1,086
Under 15	28	. .	. .	5	5	5	5	1	2	. .	. .	5
15-19	4,046	14	290	1,287	1,098	591	287	141	68	37	11	222
20-24	13,898	19	1,392	6,330	3,954	1,068	374	184	100	31	18	388
25-29	11,096	12	1,016	5,144	3,298	831	299	111	61	20	14	290
30-34	5,465	11	430	2,445	1,706	460	165	51	46	26	5	120
35-39	1,757	7	128	705	566	180	62	37	16	6	3	47
40-44	355	. .	28	131	113	44	13	6	7	3	. .	10
45 and over	20	. .	1	10	4	2	. .	. .	1	. .	. .	2
Age not stated	14	. .	. .	4	6	1	. .	. .	. .	. .	1	2
Black	195	. .	22	70	42	15	16	7	4	3	. .	16
Under 15	3	. .	. .	1	. .	. .	1	1	. .	. .	. .	. .
15-19	28	. .	3	4	2	6	1	4	3	1	. .	4
20-24	86	. .	5	32	32	4	6	1	1	1	. .	4
25-29	51	. .	9	21	3	3	6	1	. .	1	. .	7
30-34	19	. .	4	7	3	2	2	. .	. .	. .	. .	1
35-39	6	. .	1	5	. .	. .	. .	. .	. .	. .	. .	. .
40-44	2	. .	. .	. .	2	. .	. .	. .	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Age not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Indian	538	24	34	89	119	56	35	31	16	15	15	104
Under 15	3	. .	. .	. .	. .	. .	. .	. .	. .	1	1	1
15-19	124	6	8	16	27	12	10	6	4	3	3	29
20-24	190	8	13	35	45	20	10	10	9	3	8	29
25-29	130	4	7	27	31	12	4	8	1	6	3	27
30-34	59	2	6	7	11	9	7	3	1	1	. .	12
35-39	26	4	. .	2	5	3	3	4	1	1	. .	3
40-44	4	. .	. .	2	. .	. .	. .	. .	. .	. .	. .	2
45 and over	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1
Age not stated	1	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .
Other nonwhite	485	3	49	161	121	49	23	27	12	10	2	28
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	25	. .	3	4	5	6	1	2	1	1	. .	2
20-24	163	. .	15	54	41	17	9	8	7	2	1	9
25-29	181	2	15	65	45	21	6	12	. .	5	. .	10
30-34	88	1	13	28	23	5	4	4	4	1	1	4
35-39	24	. .	3	9	7	. .	2	. .	. .	1	. .	2
40-44	4	. .	. .	1	. .	. .	1	1	. .	. .	. .	1
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Age not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Race not stated	59	4	. .	2	.	4	. .	.	. .	. .	. .	49
Under 15	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1
15-19	10	2	. .	. .	. .	1	. .	. .	. .	. .	. .	7
20-24	19	. .	. .	1	. .	2	. .	. .	. .	. .	. .	16
25-29	19	1	. .	1	. .	1	. .	. .	. .	. .	. .	16
30-34	9	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	8
35-39	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Age not stated	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1

TABLE A-11

LIVE BIRTHS BY AGE OF MOTHER, RACE OF CHILD, AND PRENATAL VISITS: UTAH, 1977

Race and Age of Mother	Live Births by Number of Prenatal Visits								
	Total	None	1-5	6-9	10-14	15-18	19-27	27+	Not Stated
Total races, ages	37,956	153	1,448	7,547	24,560	2,324	341	37	1,546
Under 15	35	1	7	8	10	. .	. .	. .	9
15-19	4,233	37	309	1,029	2,265	224	47	5	317
20-24	14,356	44	487	2,767	9,455	912	136	17	538
25-29	11,477	35	331	2,217	7,641	740	96	12	405
30-34	5,640	19	197	1,055	3,802	333	46	3	185
35-39	1,813	15	85	393	1,142	89	15	. .	74
40-44	365	1	28	73	226	24	1	. .	12
45 and over	21	1	2	3	11	1	. .	. .	3
Age not stated	16	. .	2	2	8	1	. .	. .	3
White	36,679	112	1,296	7,240	24,022	2,281	335	37	1,356
Under 15	28	1	5	7	9	. .	. .	. .	6
15-19	4,046	27	279	985	2,205	221	46	5	278
20-24	13,898	34	433	2,645	9,260	896	131	17	482
25-29	11,096	26	290	2,124	7,469	731	96	12	348
30-34	5,465	12	180	1,021	3,718	323	46	3	162
35-39	1,757	10	78	383	1,120	84	15	. .	67
40-44	355	1	27	71	222	24	1	. .	9
45 and over	20	1	2	3	11	1	. .	. .	2
Age not stated	14	. .	2	1	8	1	. .	. .	2
Black	195	. .	10	54	98	13	2	. .	18
Under 15	3	. .	. .	1	1	. .	. .	. .	1
15-19	28	. .	8	6	10	. .	. .	. .	4
20-24	86	. .	1	27	45	7	2	. .	4
25-29	51	. .	1	16	24	2	. .	. .	8
30-34	19	. .	. .	2	14	2	. .	. .	1
35-39	6	. .	. .	2	2	2	. .	. .	. .
40-44	2	. .	. .	. .	2	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .
Age not stated	. .	. .	. .	. .	.	. .	. .	. .	. .
Indian	538	32	112	121	168	11	3	. .	91
Under 15	3	. .	2	. .	. .	. .	. .	. .	1
15-19	124	8	21	32	34	2	1	. .	26
20-24	190	10	42	41	67	3	2	. .	25
25-29	130	5	28	30	42	3	. .	. .	22
30-34	59	5	12	9	20	2	. .	. .	11
35-39	26	4	6	7	4	1	. .	. .	4
40-44	4	. .	1	1	1	. .	. .	. .	1
45 and over	1	. .	. .	. .	. .	. .	. .	. .	1
Age not stated	1	. .	. .	1	. .	. .	. .	. .	. .
Other nonwhite	485	5	30	129	268	19	1	. .	33
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	25	. .	1	6	15	1	. .	. .	2
20-24	163	. .	11	53	81	6	1	. .	11
25-29	181	3	12	45	105	4	. .	. .	12
30-34	88	1	5	23	50	6	. .	. .	3
35-39	24	1	1	1	16	2	. .	. .	3
40-44	4	. .	. .	1	1	. .	. .	. .	2
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .
Age not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Race not stated	59	4	. .	3	4	. .	. .	. .	48
Under 15	1	. .	. .	. .	. .	. .	. .	. .	1
15-19	10	2	. .	. .	1	. .	. .	. .	7
20-24	19	. .	. .	1	2	. .	. .	. .	16
25-29	19	1	. .	2	1	. .	. .	. .	15
30-34	9	1	. .	. .	. .	. .	. .	. .	8
35-39	. .	. .	. .	. .	. .	. .	.	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .
Age not stated	1	. .	. .	. .	. .	. .	. .	. .	1

TABLE A-12

LIVE BIRTHS BY BIRTH WEIGHT, SEX, AND RACE OF CHILD: UTAH, 1977

Birth Weight of Child in Grams	Live Births by Race and Sex of Child																	
	Total			White			Black			Indian			Other Nonwhite			Not Stated		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Total	37,956	18,460	19,496	36,679	17,850	18,829	195	97	98	538	259	279	485	227	258	59	27	32
1000 or less (2 lbs. 3 oz. or less)	101	50	51	100	50	50	1	1	. .	2	. .	2	. .	. .	. .	1	. .	1
1001-1500 (2 lbs. 4 oz.-3 lbs. 4 oz.)	137	65	72	126	59	67	3	1	2	2	2	. .	2	1	1	1	1	. .
1501-2000 (3 lbs. 5 oz.-4 lbs. 6 oz.	358	171	187	343	166	177	5	2	3	5	2	3	5	1	4	. .	. .	. .
2001-2500 (4 lbs. 7 oz.-5 lbs. 8 oz.)	1,391	745	646	1,332	711	621	17	11	6	19	11	8	22	12	10	1	. .	1
2501-3000 (5 lbs. 9 oz.-5 lbs. 8 oz.)	5,915	3,386	2,529	5,669	3,249	2,420	47	23	24	92	60	32	100	50	50	7	4	3
3001-3500 (6 lbs. 10 oz.-7 lbs. 11 oz.)	14,813	7,712	7,101	14,313	7,466	6,847	69	37	32	223	103	120	197	100	97	11	6	5
3501-4000 (7 lbs. 12 oz.-8 lbs. 13 oz.)	11,333	4,943	6,390	11,016	4,813	6,203	40	15	25	138	60	78	127	50	77	12	5	7
4001-4500 (8 lbs. 14 oz.-9 lbs. 15 oz.)	3,178	1,137	2,041	3,095	1,106	1,989	8	5	3	41	14	27	27	12	15	7	. .	7
4501 and over (9 lbs. 15 oz. and over)	513	153	360	501	148	353	4	1	3	5	2	3	2	1	1	1	1	. .
Not stated	217	98	119	184	82	102	1	1	. .	11	5	6	3	. .	3	18	10	8

TABLE A-13

LIVE BIRTHS BY BIRTH WEIGHT AND WEEKS GESTATION: UTAH, 1977

Weight of Child at Birth	Total Births	Live Births by Gestation Period in Weeks													
		Under 20	20-27	28-35	36	37	38	39	40	41	42	43	44	45+	Not Stated
Total	37,956	2	73	917	584	1,115	2,264	5,028	7,365	6,572	4,425	2,596	1,859	2,241	2,915
1000 or less (2 lbs. 3 oz. of less)	101	1	45	24	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	31
1001-1500 (2 lbs. 4 oz.-3 lbs. 4 oz.)	137	. .	9	83	3	3	5	3	2	1	. .	. .	. .	. .	28
1501-2000 (3 lbs. 5 oz.-4 lbs. 6 oz.)	358	. .	6	175	18	21	19	21	13	18	9	3	3	1	51
2001-2500 (4 lbs. 7 oz.-5 lbs. 8 oz.)	1,391	. .	1	222	129	137	146	176	153	101	65	45	37	30	149
2501-3000 (5 lbs. 9 oz.-5 lbs. 8 oz.)	5,915	. .	2	166	187	386	595	991	1,059	733	505	318	221	287	465
3001-3500 (6 lbs. 10 oz.-7 lbs. 11 oz.)	14,813	. .	4	150	158	383	979	2,263	3,188	2,569	1,621	949	718	805	1,026
3501-4000 (7 lbs. 12 oz.-8 lbs. 13 oz.)	11,333	. .	2	65	66	136	424	1,261	2,298	2,352	1,543	925	656	791	814
4001-4500 (8 lbs. 14 oz.-9 lbs. 15 oz.)	3,178	. .	. .	16	15	34	79	260	559	663	552	300	187	273	240
4501 and over (9 lbs. 15 oz. and over	513	. .	. .	3	1	5	11	36	71	110	111	50	30	48	37
Not stated	217	1	4	13	7	10	6	17	22	25	19	6	7	6	74

TABLE A-14

LIVE BIRTHS BY AGE AND EDUCATION OF MOTHER AND NUMBER OF PREVIOUS LIVE BIRTHS: UTAH, 1977

Age of Mother	Births by Education of Mother and Previous Live Births				
	Total	Less Than High School	High School Graduation	One or More Years College	Not Stated
			Total Births		
Total	37,956	5,049	14,492	18,398	17
Under 20	4,268	2,340	1,617	310	1
20-29	25,833	2,212	10,243	13,372	6
30 and over	7,839	494	2,628	4,707	10
Not stated	16	3	4	9	. .
			No Previous Live Births		
Total	11,541	2,022	4,224	5,293	2
Under 20	3,194	1,665	1,281	247	1
20-29	7,987	345	2,845	4,796	1
30 and over	359	11	98	250	. .
Not stated	1	1	. .	. .	. .
			1 Previous Live Birth		
Total	9,722	1,271	3,941	4,508	2
Under 20	724	463	237	24	. .
20-29	8,251	774	3,483	3,992	2
30 and over	742	32	219	491	. .
Not stated	5	2	2	1	. .
			2 Previous Live Births		
Total	6,873	730	2,700	3,440	3
Under 20	74	61	10	3	. .
20-29	5,474	597	2,264	2,611	2
30 and over	1,320	72	425	822	1
Not stated	5	. .	1	4	. .
			3 Previous Live Births		
Total	4,171	389	1,559	2,222	1
Under 20	12	10	2	. .	. .
20-29	2,418	268	981	1,168	1
30 and over	1,739	111	575	1,053	. .
Not stated	2	. .	1	1	. .
			4 or More Previous Live Births		
Total	4,693	451	1,737	2,497	8
Under 20	1	1	. .	. .	. .
20-29	1,071	187	440	444	. .
30 and over	3,620	263	1,297	2,052	8
Not stated	1	. .	. .	1	. .
			Number Not Stated		
Total	956	186	331	438	1
Under 20	263	140	87	36	. .
20-29	632	41	230	361	. .
30 and over	59	5	14	39	1
Not state	2	. .	. .	2	. .

TABLE A-15

LIVE BIRTHS BY AGE AND EDUCATION OF PARENTS: UTAH, 1977

Age of Parents	Total Live Births		Live Births by Education of Parents							
			Less than High School Education		High School Education		One or More Years of College		Not Stated	
	Father	Mother	Father	Mother	Father	Mother	Father	Mother	Father	Mother
Total	37,956	37,956	2,977	5,049	10,548	14,492	22,523	17,895	1,908	520
Under 15	. .	35	. .	31	. .	. .	. .	. .	. .	4
15	3	183	1	170	. .	3	. .	2	2	8
16	36	434	32	409	1	5	. .	. .	3	20
17	155	795	118	675	27	96	1	5	9	19
18	393	1,154	185	558	181	543	11	19	16	34
19	771	1,667	222	497	442	970	81	174	26	26
20-24	10,413	14,356	1,225	1,586	4,230	6,378	4,792	6,213	166	179
25-29	12,449	11,477	534	626	2,962	3,865	8,835	6,853	118	133
30-34	7,319	5,640	302	340	1,456	1,814	5,455	3,426	106	60
35-39	3,259	1,813	169	116	753	665	2,297	1,004	40	28
40-44	1,127	365	83	35	281	142	738	183	25	5
45+	474	21	60	3	139	7	259	10	16	1
Not stated	1,557	16	46	3	76	4	54	6	1,381	3

TABLE A-16

OUT-OF-WEDLOCK LIVE BIRTHS BY AGE AND EDUCATION OF PARENTS: UTAH, 1977

Age of Parents	Total Live Births		Out-of-Wedlock Live Births by Education of Parents							
			Less than High School Education		High School Education		One or More Years of College		Not Stated	
	Father	Mother	Father	Mother	Father	Mother	Father	Mother	Father	Mother
Total	1,806	1,806	120	878	141	618	65	205	1,480	105
Under 15	. .	30	. .	26	. .	. .	. .	. .	. .	4
15	2	90	. .	79	. .	1	. .	2	2	8
16	10	151	7	137	. .	. .	. .	. .	3	14
17	16	233	6	196	3	21	. .	2	7	14
18	27	217	10	101	8	96	1	4	8	16
19	32	189	8	67	8	99	3	15	13	8
20-24	132	584	31	175	38	271	16	109	47	29
25-29	70	211	17	65	14	90	14	49	25	7
30-34	46	73	5	19	8	32	7	19	26	3
35-39	17	22	3	10	3	6	1	5	10	1
40-44	7	2	2	1	1	1	. .	. .	4	. .
45+	5	1	2	1	1	. .	. .	. .	2	. .
Not stated	1,442	3	29	1	57	1	23	. .	1,333	1

TABLE A-17

OUT-OF-WEDLOCK LIVE BIRTHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1977

Residence of Mother	Out-of-Wedlock Births by Age of Mother									
	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	1,806	30	880	584	211	73	22	2	1	3
District 1	71	1	41	23	5	. .	1	. .	. .	. .
Box Elder	35	1	21	10	3	. .	. .	. .	. .	. .
Cache	35	. .	19	13	2	. .	1	. .	. .	. .
Rich	1	. .	1	. .	. .	. .	. .	. .	. .	. .
District 2N	386	3	210	109	42	17	4	. .	1	. .
Davis	131	2	84	28	12	4	. .	. .	. .	. .
Morgan	5	. .	3	2	. .	. .	. .	. .	. .	. .
Weber	250	1	123	79	30	13	4	. .	. .	. .
District 2S	957	16	447	320	117	39	14	2	. .	2
Salt Lake	927	16	430	309	116	39	13	2	. .	2
Tooele	30	. .	17	11	1	. .	1	. .	. .	. .
District 3	175	6	70	63	27	7	2	. .	. .	. .
Summit	5	1	1	1	2	. .	. .	. .	. .	. .
Utah	165	5	68	61	22	7	2	. .	. .	. .
Wasatch	5	. .	1	1	3	. .	. .	. .	. .	. .
District 4	24	. .	14	4	3	3	. .	. .	. .	. .
Juab	2	. .	1	1	. .	. .	. .	. .	. .	. .
Millard	7	. .	3	1	1	2	. .	. .	. .	. .
Piute	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	5	. .	3	2	. .	. .	. .	. .	. .	. .
Sevier	10	. .	7	. .	2	1	. .	. .	. .	. .
Wayne	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	50	1	23	18	7	1	. .	. .	. .	. .
Beaver	6	. .	3	2	1	. .	. .	. .	. .	. .
Garfield	6	. .	4	1	1	. .	. .	. .	. .	. .
Iron	10	. .	3	3	4	. .	. .	. .	. .	. .
Kane	5	. .	4	1	. .	. .	. .	. .	. .	. .
Washington	23	1	9	11	1	1	. .	. .	. .	. .
District 6	53	. .	30	16	5	2	. .	. .	. .	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	11	. .	6	5	. .	. .	. .	. .	. .	. .
Uintah	42	. .	24	11	5	2	. .	. .	. .	. .
District 7	90	3	45	31	5	4	1	. .	. .	1
Carbon	28	2	15	9	1	1	. .	. .	. .	. .
Emery	5	. .	1	4	. .	. .	. .	. .	. .	. .
Grand	9	. .	4	4	. .	1	. .	. .	. .	. .
San Juan	48	1	25	14	4	2	1	. .	. .	1

TABLE A-18

LIVE BIRTHS BY AGE AND MARITAL STATUS OF MOTHER AND RACE OF CHILD: UTAH, 1977

Marital Status and Race	Total Live Births	Live Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
All births	37,956	35	4,233	14,356	11,477	5,640	1,813	365	21	16
White	36,679	28	4,046	13,898	11,096	5,465	1,757	355	20	14
Black	195	3	28	86	51	19	6	2	. .	. .
Indian	538	3	124	190	130	59	26	4	1	1
Other nonwhite	485	. .	25	163	181	88	24	4	. .	. .
Not stated	59	1	10	19	19	9	. .	. .	. .	1
Births in wedlock	36,150	5	3,353	13,772	11,266	5,567	1,791	363	20	13
White	35,067	5	3,243	13,380	10,916	5,402	1,736	353	19	13
Black	137	. .	7	64	42	16	6	2	. .	. .
Indian	427	. .	76	158	111	52	25	4	1	. .
Other nonwhite	474	. .	23	155	180	88	24	4	. .	. .
Not stated	45	. .	4	15	17	9	. .	. .	. .	. .
Births not in wedlock	1,806	30	880	584	211	73	22	2	1	3
White	1,612	23	803	518	180	63	21	2	1	1
Black	58	3	21	22	9	3	. .	. .	. .	. .
Indian	111	3	48	32	19	7	1	. .	. .	1
Other nonwhite	11	. .	2	8	1	. .	. .	. .	. .	. .
Not stated	14	1	6	4	2	. .	. .	. .	. .	1

TABLE A-19

BIRTHS TO UTAH RESIDENTS BY AGE OF MOTHER BY BIRTH WEIGHT OF CHILD: UTAH, 1977

Weight of Child at Birth	Total Live Births	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	37,956	35	4,233	14,356	11,477	5,640	1,813	365	21	16
1,000 grams or less (2 lbs 3 oz. or less)	101	. .	18	36	34	9	3	. .	. .	1
1,001-1,500 grams (2 lbs. 4 oz. to 3 lbs. 4 oz.)	137	. .	24	56	28	16	8	5	. .	. .
1,501-2,000 grams (3 lbs. 5 oz. to 4 lbs. 6 oz.)	358	1	75	134	79	49	13	6	1	. .
2,001-2,500 grams (4 lbs. 7 oz. to 5 lbs. 8 oz.)	1,391	6	241	544	365	175	52	6	1	1
2,501-3,000 grams (5 lbs. 9 oz. to 6 lbs. 9 oz.)	5,915	7	850	2,444	1,652	703	196	55	5	3
3,001-3,500 grams (6 lbs. 10 oz. to 7 lbs. 11 oz.)	14,813	9	1,736	5,878	4,440	2,015	613	112	5	5
3,501-4,000 grams (7 lbs. 12 oz. to 8 lbs. 13 oz.)	11,333	10	1,050	4,069	3,624	1,843	614	111	7	5
4,001-4,500 grams (8 lbs. 14 oz. to 9 lbs. 15 oz.)	3,178	2	195	1,001	1,028	652	245	54	1	. .
4,501 grams and over (9 lbs. 15 oz. and over)	513	. .	23	108	164	152	53	12	1	. .
Not stated	217	. .	21	86	63	26	16	4	. .	1

TABLE A-20

LIVE BIRTHS BY BIRTH WEIGHT WITH MENTION OF COMPLICATION, BIRTH INJURY OR CONGENITAL ANOMALY: UTAH, 1977

Birth Weight	Total Live Births	Births by Conditions Noted					
		Complications Related to Pregnancy	Birth Injury	Complications Not Related to Pregnancy	Congenital Anomaly	Complications Related to Labor	At Least One Condition
Total	37,956	3,204	179	765	672	5,301	7,408
1,000 grams or less (2 lbs. 3 oz. or less)	101	55	7	10	26	56	76
1,001-1,500 grams (2 lbs. 4 oz.-3 lbs. 4 oz.)	137	71	11	13	29	84	106
1,501-2,000 grams (3 lbs. 5 oz.-4 lbs. 6 oz.)	358	173	9	28	55	184	263
2,001-2,500 grams (4 lbs. 7 oz.-5 lbs. 8 oz.)	1,391	355	19	61	127	477	682
2,501-3,000 grams (5 lbs. 9 oz.-6 lbs. 9 oz.)	5,915	660	27	137	119	909	1,338
3,001-3,500 grams (6 lbs. 10 oz.-7 lbs. 11 oz.)	14,813	1,005	46	258	147	1,806	2,515
3,501-4,000 grams (7 lbs. 12 oz.-8 lbs. 14 oz.)	11,333	594	36	184	101	1,265	1,713
4,001-4,500 grams (8 lbs. 14 oz.-9 lbs. 14 oz.)	3,178	201	15	63	36	385	532
4,501 grams and over (9 lbs. 15 oz. and over)	513	56	6	7	5	92	114
Not stated	217	34	3	4	27	43	69

TABLE A-21

LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN WITH MENTION OF COMPLICATION, BIRTH INJURY OR CONGENITAL ANOMALY: UTAH, 1977

Condition	Total Live Births	Births by Month Prenatal Care Began										
		No Care	1	2	3	4	5	6	7	8	9	Not Stated
Total	37,956	94	3,390	16,383	11,072	3,306	1,279	596	333	151	69	1,283
Complication related to pregnancy	3,204	11	312	1,278	919	314	99	50	27	12	3	179
Birth injury	179	. .	17	66	57	16	8	6	1	1	. .	7
Complication not related to pregnancy	765	1	82	257	250	74	30	17	10	4	. .	40
Congenital anomaly	672	. .	74	301	170	63	25	6	6	3	2	22
Complication related to labor	5,301	16	483	2,236	1,542	512	160	77	56	24	4	191
At least one condition	7,408	23	686	3,077	2,146	709	249	109	73	32	9	295

TABLE A-22

BIRTHS TO RESIDENTS BY AGE OF MOTHER WITH MENTION OF COMPLICATION AT BIRTH: UTAH, 1977

Condition	Total	Births with Mention of Complication by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Complications related to pregnancy	3,204	3	397	1,088	930	551	184	47	2	2
Complication not related to pregnancy	765	. .	97	257	212	134	55	9	1	. .
Complication related to labor	5,301	4	631	1,981	1,581	769	271	57	4	3
Birth injury	179	. .	30	66	46	22	11	4	. .	. .
Congenital anomaly	672	1	72	249	191	101	41	16	1	
At least one condition	7,408	6	879	2,706	2,196	1,136	387	87	6	5

TABLE A-23

LIVE BIRTHS BY RESIDENCE OF MOTHER WITH MENTION OF COMPLICATION, BIRTH INJURY OR CONGENITAL ANOMALY: UTAH, 1977

District and County	Complications			Birth Injury	Congenital Anomalies	At Least One Condition
	Related to Pregnancy	Not Related to Pregnancy	Related to Labor			
Total	3,204	765	5,301	179	672	7,408
District 1	217	49	496	15	32	652
Box Elder	37	10	125	4	12	153
Cache	173	39	361	11	20	488
Rich	7	. .	10	. .	. .	11
District 2N	593	136	934	38	112	1,349
Davis	296	61	500	20	40	696
Morgan	11	2	8	. .	5	19
Weber	286	73	426	18	67	634
District 2S	1,692	423	2,342	58	169	3,367
Salt Lake	1,600	412	2,252	52	163	3,215
Tooele	92	11	90	6	6	152
District 3	358	67	678	20	197	901
Summit	20	3	41	3	2	52
Utah	315	58	595	17	194	797
Wasatch	23	6	42	. .	1	52
District 4	73	16	335	8	18	380
Juab	10	2	11	. .	3	16
Millard	28	8	30	5	8	53
Piute	1	. .	9	. .	. .	9
Sanpete	23	3	107	3	5	119
Sevier	9	3	161	. .	2	165
Wayne	2	. .	17	. .	. .	18
District 5	68	19	161	11	65	249
Beaver	8	2	21	2	1	29
Garfield	6	2	17	2	1	20
Iron	41	11	73	2	15	96
Kane	2	. .	15	3	1	18
Washington	11	4	35	2	47	86
District 6	74	11	166	12	23	221
Daggett	1	. .	1	. .	1	1
Duchesne	25	7	68	5	10	90
Uintah	48	4	97	7	12	130
District 7	129	44	189	17	56	289
Carbon	38	19	50	10	17	79
Emery	19	3	21	1	7	37
Grand	9	5	20	2	12	40
San Juan	63	17	98	4	20	133

TABLE A-24

RESIDENT FETAL DEATHS BY SEX AND SELECTED CAUSE: UTAH, 1977

Cause of Fetal Death per Eighth Revision of the International Classification of Disease		Total	Sex of Fetus		
			Male	Female	Unknown
740-779.9	Total fetal deaths	318	166	142	10
740-759	Congenital anomalies	22	8	12	2
740	Anencephalus	6	4	2	. .
741	Spina biffida	3	1	2	. .
742	Congenital hydrosephalus	4	3	1	. .
748	Other and unspecified congenital anomalies	2	. .	2	. .
759	Congenital syndromes affecting multiple systems	7	. .	5	2
760-761	Maternal conditions unrelated to pregnancy	15	7	8	. .
760	Chronic hypertension	4	. .	4	. .
761.1	Diabetes mellitus	9	7	2	. .
761.6	Operation (excluding any operation to deliver fetus)	1	. .	1	. .
761.9	Other maternal causes	1	. .	1	. .
762-769	Complications related to pregnancy and childbirth	37	17	19	1
762	Toxemia of pregnancy	8	2	6	. .
763	Maternal ante- and intra-partum infection	1	1	. .	. .
766	Difficult labor with malposition of fetus	2	1	1	. .
769	Other complications of pregnancy and childbirth	26	13	12	1
770	Conditions of placenta	46	22	24	. .
770.0	Placenta previa	2	. .	2	. .
770.1	Premature separation of placenta	17	7	10	. .
770.2	Placental infarction	6	1	5	. .
770.8	Other	1	1	. .	. .
770.9	Unspecified	20	13	7	. .
771	Conditions of umbilical cord	73	45	28	. .
771.0	Compression of cord	4	2	2	. .
771.1	Prolapse of cord without mention of compression	4	3	1	. .
771.9	Other	65	40	25	. .
775	Hemolytic disease of newborn without mention of kernicterus	8	4	3	1
775.0	With Rh incompatibility	5	4	1	. .
775.9	Without mention of cause	3	. .	2	1
776	Anoxic and hypoxic conditions not elsewhere classifiable	14	9	5	. .
777-779	All other conditions	99	51	42	6
777	Immaturity, unqualified	20	13	7	. .
778	Other conditions of fetus or newborn	8	5	2	1
779.0	Maceration	1	1	. .	. .
779.9	Other fetal death of unknown cause	70	32	33	5

Note: Total includes 4 deaths from other categories.

TABLE A-25

FETAL DEATHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1977

Mother's Residence	Total	Fetal Deaths by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unknown
Total	318	2	26	98	83	62	27	5	1	14
District 1	11	. .	. .	4	2	3	1	. .	. .	1
Box Elder	5	. .	. .	2	. .	2	. .	. .	. .	1
Cache	5	. .	. .	2	2	. .	1	. .	. .	. .
Rich	1	. .	. .	. .	. .	1	. .	. .	. .	. .
District 2N	52	. .	2	19	15	9	5	1	1	. .
Davis	19	. .	. .	5	6	6	2	. .	. .	. .
Morgan	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	33	. .	2	14	9	3	3	1	1	. .
District 2S	159	1	11	46	42	32	14	4	. .	9
Salt Lake	157	1	10	45	42	32	14	4	. .	9
Tooele	2	. .	1	1	. .	. .	. .	. .	. .	. .
District 3	50	. .	5	15	15	7	5	. .	. .	3
Summit	1	. .	. .	1	. .	. .	. .	. .	. .	. .
Utah	48	. .	5	14	15	6	5	. .	. .	3
Wasatch	1	. .	. .	. .	. .	1	. .	. .	. .	. .
District 4	11	1	2	1	2	5	. .	. .	. .	. .
Juab	2	. .	1	. .	1	. .	. .	. .	. .	. .
Millard	1	. .	. .	. .	. .	1	. .	. .	. .	. .
Piute	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	4	1	. .	. .	. .	3	. .	. .	. .	. .
Sevier	4	. .	1	1	1	1	. .	. .	. .	. .
Wayne	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	8	. .	1	4	2	1	. .	. .	. .	. .
Beaver	1	. .	1	. .	. .	. .	. .	. .	. .	. .
Garfield	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Iron	4	. .	. .	2	1	1	. .	. .	. .	. .
Kane	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Washington	3	. .	. .	2	1	. .	. .	. .	. .	. .
District 6	11	. .	3	5	1	1	1	. .	. .	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	3	. .	1	2	. .	. .	. .	. .	. .	. .
Uintah	8	. .	2	3	1	1	1	. .	. .	. .
District 7	16	. .	2	4	4	4	1	. .	. .	1
Carbon	5	. .	1	1	1	1	. .	. .	. .	1
Emery	5	. .	1	1	1	1	1	. .	. .	. .
Grand	1	. .	. .	1	. .	. .	. .	. .	. .	. .
San Juan	5	. .	. .	1	2	2	. .	. .	. .	. .

TABLE A-26

INFANT MORTALITY FOR SELECTED CAUSES BY AGE, RACE, AND SEX: UTAH, 1977

Cause of Death per Eighth Revision of the International Classification of Disease	Sex	Total	Race		Age				
			White	Non-white	Under 1 Day	1-6 Days	7-27 Days	Total Under 28 Days	28 Days -1 Year
Total deaths, all causes	T	381	362	19	130	86	39	255	126
	M	229	223	6	70	54	28	152	77
	F	152	139	13	60	32	11	103	49
Intestinal infectious diseases 000-009	M	2	2	. .	. .	. .	2	2	. .
	F	4	3	1	. .	1	1	2	2
Other infective and parasitic diseases 010-136	M	7	7	. .	2	1	1	4	3
	F	6	5	1	3	2	1	6	. .
Meningitis 320	M	6	5	1	. .	1	1	2	4
	F	6	6	. .	. .	. .	. .	. .	6
Diseases of the respiratory system, except influenza and pneumonia 460-519	M	2	2	. .	. .	1	. .	1	1
	F	2	2	. .	. .	. .	. .	. .	2
Influenza and pneumonia 470-474, 480-486	M	2	2	. .	. .	1	. .	1	1
	F	4	3	1	1	. .	. .	1	3
Congenital anomalies 740-759	M	55	54	1	14	15	7	36	19
	F	43	39	4	15	10	4	29	14
Congenital hydrocephalus 742	M	3	3	. .	1	. .	2	3	. .
	F	5	4	1	3	1	. .	4	1
Congenital anomalies of heart 746	M	25	24	1	. .	12	3	15	10
	F	10	9	1	. .	3	1	4	6
Other congenital anomalies of circulatory system 747	M	5	5	. .	. .	. .	1	1	4
	F	7	7	. .	. .	2	2	4	3
Other contenital anomalies of digestive system 751	M	2	2	. .	1	. .	. .	1	1
	F	. .	. .	. .	. .	. .	. .	. .	. .
Congenital anomalies of urinary system 753	M	2	2	. .	2	. .	. .	2	. .
	F	1	1	. .	1	. .	. .	1	. .
Congenital syndromes affecting multiple systems 759	M	7	7	. .	3	2	1	6	1
	F	9	9	. .	6	1	. .	7	2
All other congenital anomalies	M	11	11	. .	7	1	. .	8	3
	F	11	9	2	5	3	1	9	2
Certain diseases of early infancy 760-778	M	97	94	3	50	33	10	93	4
	F	55	53	2	38	15	1	54	1
Birth injury 764-768, 772	M	7	7	. .	1	5	. .	6	1
	F	1	1	. .	. .	1	. .	1	. .
Other complications of pregnancy and childbirth 769	M	12	12	. .	12	. .	. .	12	. .
	F	5	5	. .	3	2	. .	5	. .
Conditions of the placenta 770	M	4	4	. .	4	. .	. .	4	. .
	F	2	1	1	2	. .	. .	2	. .
Hemolytic disease of newborn without mention of kernicterus 775	M	1	1	. .	. .	. .	. .	. .	1
	F	2	2	. .	1	1	. .	2	. .
Hyaline membrane disease 776.1	M	18	17	1	5	8	5	18	. .
	F	10	10	. .	5	5	. .	10	. .
Respiratory distress syndrom 776.2	M	16	14	2	4	8	4	16	. .
	F	6	5	1	4	2	. .	6	. .
Asphyxia of newborn, unspecified 776.9	M	16	16	. .	11	4	1	16	. .
	F	8	8	. .	7	. .	1	8	. .
Immaturity unqualified 777	M	12	12	. .	10	2	. .	12	. .
	F	12	12	. .	11	. .	. .	11	1
Remainder of 760-778	M	11	11	. .	3	6	. .	9	2
	F	9	9	. .	5	4	. .	9	. .
Cause unknown (includes sudden death, and found dead) 795, 796	M	33	32	1	. .	. .	2	2	31
	F	16	14	2	1	. .	3	4	12
Accidents E800-E949	M	4	4	. .	. .	. .	. .	. .	4
	F	3	2	1	. .	. .	. .	. .	3
Residual	M	21	21	. .	4	2	5	11	10
	F	13	12	1	2	4	1	7	6

TABLE A-27

INFANT, NEONATAL, AND PERINATAL MORTALITY BY RESIDENCE OF MOTHER: UTAH, 1977

District and County	Infant Mortality						
	Total Deaths Under 1 Year of Age (Excluding Fetal)	28 Days to Under 1 Year	Neonatal Mortality				
			Perinatal Mortality				
			7-27 Days	1-6 Days	.-24 Hours	Under 1 Hr.	Fetal Deaths
Total	381	126	39	86	86	44	318
District 1	17	4	3	3	5	2	11
Box Elder	5	. .	1	1	2	1	5
Cache	11	4	2	2	2	1	5
Rich	1	. .	. .	. .	1	. .	1
District 2N	76	25	11	13	17	10	52
Davis	38	12	6	9	7	4	19
Morgan	1	. .	. .	. .	. .	1	. .
Weber	37	13	5	4	10	5	33
District 2S	131	55	8	26	23	19	159
Salt Lake	125	53	7	23	23	19	157
Tooele	6	2	1	3	. .	. .	2
District 3	73	16	6	28	17	6	50
Summit	3	1	. .	1	. .	1	1
Utah	68	15	6	26	17	4	48
Wasatch	2	. .	. .	1	. .	1	1
District 4	15	3	2	3	5	2	11
Juab	2	1	1	. .	. .	. .	2
Millard	3	. .	. .	2	1	. .	1
Piute	. .	. .	. .	. .	. .	. .	. .
Sanpete	7	1	. .	1	3	2	4
Sevier	3	1	1	. .	1	. .	4
Wayne	. .	. .	. .	. .	. .	. .	. .
District 5	16	8	2	2	3	1	8
Beaver	. .	. .	. .	. .	. .	. .	1
Garfield	1	. .	. .	. .	. .	1	. .
Iron	7	3	2	1	1	. .	4
Kane	1	1	. .	. .	. .	. .	. .
Washington	7	4	. .	1	2	. .	3
District 6	25	8	3	5	7	2	11
Daggett	1	1	. .	. .	. .	. .	. .
Duchesne	6	1	. .	. .	4	1	3
Uintah	18	6	3	5	3	1	8
District 7	28	7	4	6	9	2	16
Carbon	13	2	1	3	6	1	5
Emery	2	. .	1	. .	. .	1	5
Grand	5	. .	2	2	1	. .	1
San Juan	8	5	. .	1	2	. .	5

TABLE A-28

LIVE BIRTHS, PREMATURE LIVE BIRTHS, FETAL DEATHS, AND SELECTED CAUSES OF INFANT MORTALITY BY INSTITUTION AND COUNTY OF OCCURRENCE: UTAH, 1977

County and Institution	Live Births		Fetal Deaths	Infant Deaths by Selected Causes							
	Total	Premature		Total	Respiratory System Diseases 460-519	Congenital Anomalies 740-759	Complications Related to Pregnancy and Childbirth 762-772	Anoxic & Hypoxic Conditions Not Elsewhere Classifiable Except Unspecified 776	Asphyxia of Newborn Unspecified 776.9	Immaturity Unqualified 777	All Other Causes
Total	38,855	2,249	327	440	11	120	37	68	25	25	154
Beaver	116	7	1	. .	. .	. .	. .	. .	. .	. .	. .
Beaver Valley Hospital	85	5	. .	. .	. .	. .	. .	. .	. .	. .	. .
Milford Valley Hospital	31	2	1	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Box Elder	676	40	1	2	. .	. .	. .	. .	. .	. .	2
Bear River Valley Hospital	91	4	. .	. .	. .	. .	. .	. .	. .	. .	. .
Cooley Memorial Hospital	579	35	1	1	. .	. .	. .	. .	. .	. .	1
Not in hospital	6	1	. .	1	. .	. .	. .	. .	. .	. .	1
Cache	1,967	78	11	9	1	2	. .	. .	. .	2	4
Logan Hospital	1,954	76	11	8	. .	2	. .	. .	. .	2	4
Not in hospital	13	2	. .	1	1	. .	. .	. .	. .	. .	. .
Carbon	503	42	8	7	. .	2	1	. .	. .	. .	4
Carbon County Hospital	503	42	8	4	. .	2	1	. .	. .	. .	1
Not in hospital	. .	. .	. .	3	. .	. .	. .	. .	. .	. .	3
Daggett	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	1
Davis	2,472	123	20	17	. .	6	. .	1	. .	. .	10
Hill AFB, USAF Hospital	550	31	10	2	. .	1	. .	. .	. .	. .	1
Lakeview Hospital	1,477	66	10	8	. .	2	. .	1	. .	. .	5
North Davis Medical Center	416	25	. .	3	. .	2	. .	. .	. .	. .	1
Not in hospital	29	1	. .	4	. .	1	. .	. .	. .	. .	3
Duchesne	471	44	4	2	. .	. .	. .	1	. .	. .	1
Duchesne County Hospital	468	44	4	1	. .	. .	. .	1	. .	. .	. .
Not in hospital	3	. .	. .	1	. .	. .	. .	. .	. .	. .	1
Emery[1]	4	. .	1	. .	. .	. .	. .	. .	. .	. .	. .
Garfield	94	6	. .	. .	. .	. .	. .	. .	. .	. .	. .
Garfield Memorial Hospital	94	6	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Grand	236	23	1	. .	. .	. .	. .	. .	. .	. .	. .
Allen Memorial Hospital	232	22	1	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	4	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Iron	605	35	5	8	. .	2	. .	1	. .	. .	5
Valley View Medical Center	598	33	5	4	. .	1	. .	1	. .	. .	2
Not in hospital	7	2	. .	4	. .	1	. .	. .	. .	. .	3
Juab	122	10	. .	3	. .	1	. .	. .	. .	. .	2
Juab County Hospital	121	10	. .	1	. .	1	. .	. .	. .	. .	. .
Not in hospital	1	. .	. .	2	. .	. .	. .	. .	. .	. .	2
Kane	125	3	. .	1	. .	. .	. .	. .	. .	. .	1
Kane County Hospital	123	3	. .	1	. .	. .	. .	. .	. .	. .	1
Not in hospital	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Millard	208	12	2	1	. .	. .	. .	. .	1	. .	. .
Fillmore Hospital	53	1	1	1	. .	. .	. .	. .	1	. .	. .
West Millard Hospital	154	11	1	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Morgan	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Piute	. .	. .	. .	1	. .	1	. .	. .	. .	. .	. .
Rich[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-28--Continued

LIVE BIRTHS, PREMATURE LIVE BIRTHS, FETAL DEATHS, AND SELECTED CAUSES OF INFANT MORTALITY BY INSTITUTION AND COUNTY OF OCCURRENCE: UTAH, 1977

County and Institution	Live Births		Fetal Deaths	Infant Deaths by Selected Causes							
	Total	Premature		Total	Respiratory System Diseases 460-519	Congenital Anomalies 740-759	Complications Related to Pregnancy and Childbirth 762-772	Anoxic & Hypoxic Conditions Not Elsewhere Classifiable Except Unspecified 776	Asphyxia of Newborn Unspecified 776.9	Immaturity Unqualified 777	All Other Causes
Salt Lake	16,101	1,012	168	256	6	76	23	48	15	9	79
Cottonwood Hospital	3,103	143	28	8	. .	4	1	. .	1	1	1
Holy Cross Hospital	3,116	141	23	9	. .	3	2	1	2	. .	1
L.D.S. Hospital	5,989	294	63	15	. .	5	3	. .	1	3	3
Primary Child.'s Med. Center	. .	. .	. .	81	2	48	1	2	1	. .	27
St. Mark's Hospital	1,718	91	18	3	. .	1	1	. .	. .	. .	1
University Hospital	1,287	273	27	112	2	13	14	45	10	5	23
Valley West Hospital	703	47	5	1	. .	. .	. .	. .	.	. .	1
Veteran's Hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	185	23	4	27	2	2	1	. .	. .	. .	22
San Juan	303	24	4	8	1	1	. .	2	. .	. .	4
Monument Valley Hospital	84	2	. .	2	. .	. .	. .	1	. .	. .	1
San Juan Co. Hospital	206	19	4	4	1	1	. .	1	. .	. .	1
Not in hospital	13	3	. .	2	. .	. .	. .	. .	. .	. .	2
Sanpete	349	18	5	3	. .	. .	. .	1	. .	1	1
Gunnison Valley Hospital	159	3	2	1	. .	. .	. .	. .	. .	1	. .
Sanpete Valley Hospital	183	14	3	1	. .	. .	. .	1	. .	. .	. .
Not in hospital	7	1	. .	1	. .	. .	. .	. .	. .	. .	1
Sevier	386	26	3	. .	. .	. .	. .	. .	. .	. .	. .
Sevier Valley Hospital	383	26	3	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Summit	38	1	. .	1	. .	. .	. .	. .	. .	. .	1
Summit County Hospital	33	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	5	1	. .	1	. .	. .	. .	. .	. .	. .	1
Tooele	182	16	2	3	. .	1	. .	. .	. .	. .	2
Tooele Valley Hospital	176	16	2	. .	. .	. .	. .	. .	. .	. .	. .
U.S. Army Health Clinic	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	6	. .	. .	3	. .	1	. .	. .	. .	. .	2
Uintah	435	26	3	4	. .	1	. .	. .	. .	1	2
Uintah County Hospital	431	26	3	2	. .	1	. .	. .	. .	1	. .
Not in hospital	4	. .	. .	2	. .	. .	. .	. .	. .	. .	2
Utah	7,473	369	45	69	1	20	6	13	2	7	20
American Fork Hospital	802	29	4	1	. .	1	. .	. .	. .	. .	. .
Payson City Hospital	957	39	7	8	. .	6	2	. .	. .	. .	. .
Utah State Hospital	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	1
Utah Valley Hospital	5,630	299	34	47	1	9	3	13	2	5	14
Not in hospital	84	2	. .	12	. .	4	1	. .	. .	2	5
Wasatch	238	26	1	. .	. .	. .	. .	. .	. .	. .	. .
Wasatch County Hospital	237	26	1	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Washington	949	23	4	4	2	. .	. .	. .	. .	1	1
Dixie Medical Center	769	17	3	1	1	. .	. .	. .	. .	. .	. .
Not in hospital	180	6	1	3	1	. .	. .	. .	. .	1	1
Wayne[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	4,800	285	38	40	. .	7	7	1	7	4	14
McKay Dee Hospital	3,943	219	29	26	. .	6	7	1	5	4	3
St. Benedict	840	64	9	5	. .	. .	. .	. .	2	. .	3
Not in hospital	17	2	. .	9	. .	1	. .	. .	. .	. .	8

[1]No hospital in county.

TABLE A-29

DEATHS BY AGE, SEX, AND RESIDENCE: UTAH, 1977

District and County	Total			Deaths by Age Group and Sex																	
				Under 1		1-4		5-14		15-24		25-34		35-44		45-64		65-74		75+	
	Total	Male	Female	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	7,612	4,321	3,291	229	152	44	37	52	27	215	57	171	67	153	68	1,007	569	1,006	621	1,444	1,693
District 1	508	296	212	13	4	4	2	1	7	11	5	5	2	13	2	44	30	77	40	128	120
Box Elder	204	111	93	2	3	1	1	1	3	5	5	2	. .	4	1	22	20	34	20	40	40
Cache	295	180	115	10	1	3	1	. .	4	6	. .	2	2	9	1	21	9	43	17	86	80
Rich	9	5	4	1	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	1	1	. .	3	2	. .
District 2N	1,407	812	595	47	29	6	8	11	4	46	10	29	11	17	11	235	108	177	104	244	310
Davis	480	271	209	20	18	1	5	5	2	17	3	11	4	9	5	82	41	62	31	64	100
Morgan	25	17	8	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	5	1	3	4	8	3
Weber	902	524	378	26	11	5	3	6	2	29	7	18	7	8	6	148	66	112	69	172	207
District 2S	3,440	1,898	1,542	74	57	20	13	20	8	85	32	78	40	85	35	440	270	464	308	632	779
Salt Lake	3,310	1,825	1,485	70	55	20	13	18	8	79	31	73	36	82	34	418	259	449	293	616	756
Tooele	130	73	57	4	2	. .	. .	2	. .	6	1	5	4	3	1	22	11	15	15	16	23
District 3	986	550	436	45	28	7	8	10	2	23	5	25	3	14	7	131	86	116	74	179	223
Summit	49	31	18	3	. .	. .	. .	. .	1	2	. .	1	. .	2	1	10	4	4	5	9	7
Utah County	892	496	396	41	27	6	8	9	1	19	5	24	3	11	6	115	79	107	64	164	203
Wasatch	45	23	22	1	1	1	. .	1	. .	2	. .	. .	. .	1	. .	6	3	5	5	6	13
District 4	376	214	162	6	9	1	2	4	. .	7	1	9	2	5	1	45	20	61	31	76	96
Juab	37	20	17	. .	2	. .	. .	. .	. .	1	. .	1	. .	2	. .	6	2	7	4	3	9
Millard	67	40	27	1	2	. .	1	2	. .	3	. .	2	1	1	1	6	. .	10	8	15	14
Piute	9	6	3	. .	. .	1	. .	. .	. .	. .	. .	1	. .	1	. .	. .	1	1	. .	2	2
Sanpete	140	80	60	3	4	. .	. .	1	. .	1	. .	5	. .	1	. .	14	8	20	8	35	40
Sevier	113	61	52	2	1	. .	1	1	. .	2	1	. .	1	. .	. .	18	9	22	11	16	28
Wayne	10	7	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	1	. .	5	3
District 5	340	197	143	10	6	1	3	2	2	14	1	3	5	5	2	34	15	43	26	85	83
Beaver	39	25	14	. .	. .	. .	. .	. .	. .	1	. .	. .	1	. .	. .	5	1	7	3	12	9
Garfield	26	15	11	. .	1	. .	. .	. .	1	2	. .	. .	. .	. .	1	3	1	5	3	5	4
Iron	85	53	32	5	2	1	. .	1	. .	5	. .	2	2	2	1	13	3	7	4	17	20
Kane	30	15	15	. .	1	. .	. .	. .	. .	. .	. .	. .	2	3	. .	6	2	. .	2	6	8
Washington	160	89	71	5	2	. .	3	1	1	6	1	1	. .	. .	. .	7	8	24	14	45	42
District 6	223	151	72	22	3	3	. .	3	1	10	3	11	1	11	2	42	15	22	11	27	36
Daggett	3	3	. .	1	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	1	. .	. .	. .	. .	. .
Duchesne	77	58	19	6	. .	1	. .	1	1	4	1	2	1	7	1	15	5	13	4	9	6
Uintah	143	90	53	15	3	2	. .	2	. .	6	2	8	. .	4	1	26	10	9	7	18	30
District 7	332	203	129	12	16	2	1	1	3	19	. .	11	3	3	8	36	25	46	27	73	46
Carbon	183	114	69	9	4	. .	. .	. .	2	5	. .	5	1	1	5	21	18	25	15	48	24
Emery	49	27	22	. .	2	. .	. .	. .	. .	2	. .	. .	. .	. .	2	7	3	5	6	13	9
Grand	39	26	13	2	3	. .	. .	. .	1	8	. .	. .	. .	. .	. .	3	3	11	1	2	5
San Juan	61	36	25	1	7	2	1	1	. .	4	. .	6	2	2	1	5	1	5	5	10	8

TABLE A-30

DEATHS BY RACE, SEX, AND RESIDENCE: UTAH, 1977

District and County of Residence	Total	Deaths by Race and Sex														
		White			Black			Indian			Other Nonwhite			Race Not Stated		
		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	7,612	7,422	4,204	3,218	48	26	22	88	58	30	49	31	18	5	2	3
District 1	508	498	294	204	. .	. .	. .	3	1	2	6	1	5	1	. .	1
Box Elder	204	196	110	86	. .	. .	. .	3	1	2	4	. .	4	1	. .	1
Cache	295	293	179	114	. .	. .	. .	. .	. .	. .	2	1	1	. .	. .	. .
Rich	9	9	5	4	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 2N	1,407	1,366	786	580	24	14	10	3	2	1	14	10	4	. .	. .	. .
Davis	480	469	264	205	2	2	. .	. .	. .	. .	9	5	4	. .	. .	. .
Morgan	25	25	17	8	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	902	872	505	367	22	12	10	3	2	1	5	5	. .	. .	. .	. .
District 2S	3,440	3,379	1,863	1,516	23	11	12	8	3	5	28	20	8	2	1	1
Salt Lake	3,310	3,254	1,792	1,462	23	11	12	3	1	2	28	20	8	2	1	1
Tooele	130	125	71	54	. .	. .	. .	5	2	3	. .	. .	. .	. .	. .	. .
District 3	986	983	549	434	. .	. .	. .	2	1	1	1	. .	1	. .	. .	. .
Summit	49	49	31	18	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Utah County	892	889	495	394	. .	. .	. .	2	1	1	1	. .	1	. .	. .	. .
Wasatch	45	45	23	22	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 4	376	373	212	161	. .	. .	. .	3	2	1	. .	. .	. .	. .	. .	. .
Juab	37	37	20	17	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Millard	67	67	40	27	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Piute	9	9	6	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	140	140	80	60	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sevier	113	110	59	51	. .	. .	. .	3	2	1	. .	. .	. .	. .	. .	. .
Wayne	10	10	7	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	340	335	192	143	. .	. .	. .	5	5	. .	. .	. .	. .	. .	. .	. .
Beaver	39	39	25	14	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Garfield	26	25	14	11	. .	. .	. .	1	1	. .	. .	. .	. .	. .	. .	. .
Iron	85	82	50	32	. .	. .	. .	3	3	. .	. .	. .	. .	. .	. .	. .
Kane	30	30	15	15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Washington	160	159	88	71	. .	. .	. .	1	1	. .	. .	. .	. .	. .	. .	. .
District 6	223	195	130	65	. .	. .	. .	28	21	7	. .	. .	. .	. .	. .	. .
Daggett	3	3	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	77	74	56	18	. .	. .	. .	3	2	1	. .	. .	. .	. .	. .	. .
Uintah	143	118	71	47	. .	. .	. .	25	19	6	. .	. .	. .	. .	. .	. .
District 7	332	293	178	115	1	1	. .	36	23	13	. .	. .	. .	2	1	1
Carbon	183	180	112	68	1	1	. .	. .	. .	. .	. .	. .	. .	2	1	1
Emery	49	49	27	22	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Grand	39	39	26	13	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
San Juan	61	25	13	12	. .	. .	. .	36	23	13	. .	. .	. .	. .	. .	. .

TABLE A-31

DEATHS BY PLACE WHERE DEATH OCCURRED IN COUNTY OF OCCURRENCE: UTAH, 1977

County of Occurrence	Total	Hospital	Home	Enroute Hospital	Nursing Home	Clinic Dr.'s Off., Maternal Home	Other Location	Not Stated
Total	8,005	4,353	1,661	270	1,324	9	385	3
District 1	457	185	110	33	108	2	18	1
Box Elder	170	65	47	6	38	2	12	. .
Cache	283	120	63	27	70	. .	2	1
Rich	4	. .	. .	. .	. .	. .	4	. .
District 2N	1,332	741	311	52	187	2	39	. .
Davis	360	199	104	6	40	. .	11	. .
Morgan	16	. .	11	. .	. .	. .	5	. .
Weber	956	542	196	46	147	2	23	. .
District 2S	4,048	2,278	814	99	745	3	108	1
Salt Lake	3,936	2,245	792	73	733	2	91	. .
Tooele	112	33	22	26	12	1	17	1
District 3	1,009	594	176	27	162	1	49	. .
Summit	49	11	19	1	. .	. .	18	. .
Utah	902	546	151	19	157	1	28	. .
Wasatch	58	37	6	7	5	. .	3	. .
District 4	332	158	80	7	30	. .	56	1
Juab	60	24	7	2	2	. .	25	. .
Millard	60	38	8	3	1	. .	10	. .
Piute	8	. .	4	. .	. .	. .	4	. .
Sanpete	93	52	26	2	7	. .	5	1
Sevier	104	44	28	. .	20	. .	12	. .
Wayne	7	. .	7	. .	. .	. .	. .	. .
District 5	335	172	74	20	46	. .	23	. .
Beaver	31	25	3	. .	. .	. .	3	. .
Garfield	17	10	4	2	. .	. .	1	. .
Iron	90	44	23	3	11	. .	9	. .
Kane	41	25	5	6	2	. .	3	. .
Washington	156	68	39	9	33	. .	7	. .
District 6	178	72	40	16	18	. .	32	. .
Daggett	8	. .	3	. .	. .	. .	5	. .
Duchesne	85	34	6	11	16	. .	18	. .
Uintah	85	38	31	5	2	. .	9	. .
District 7	314	153	56	16	28	1	60	. .
Carbon	173	107	38	8	11	. .	9	. .
Emery	32	. .	9	. .	11	1	11	. .
Grand	44	21	5	5	. .	. .	13	. .
San Juan	65	25	4	3	6	. .	27	. .

TABLE A-32

DEATHS BY AGE, SEX, AND RACE: UTAH, 1977

Age	Deaths by Race and Sex								
	Total Deaths	White		Black		Indian		Other Nonwhite	
		Male	Female	Male	Female	Male	Female	Male	Female
Total	7,612	4,204	3,218	26	22	58	30	33	21
Under 1 year[1]	381	223	139	. .	3	4	7	2	3
Under 1 month[1]	255	149	96	. .	1	2	3	1	3
Under 1 week[1]	216	121	85	. .	1	2	3	1	3
Under 1 day[1]	130	68	55	. .	1	2	2	. .	2
Under 1 hour[1]	44	25	18	. .	. .	. .	. .	. .	1
1-4	81	41	35	. .	. .	2	1	1	1
5-9	30	16	13	. .	. .	1	. .	. .	. .
10-14	49	33	14	. .	. .	2	. .	. .	. .
15-19	129	91	29	2	. .	5	2	. .	. .
20-24	143	110	23	. .	. .	7	3	. .	. .
25-29	133	90	35	5	. .	2	1	. .	. .
30-34	105	65	30	1	. .	8	1	. .	. .
35-39	113	70	33	. .	3	4	2	1	. .
40-44	108	73	29	1	. .	2	1	2	. .
45-49	205	127	69	5	. .	2	1	. .	1
50-54	300	183	102	2	3	4	2	1	3
55-59	468	289	173	1	1	2	. .	2	. .
60-64	603	383	209	2	4	2	1	2	. .
65-69	712	459	243	4	2	3	1	. .	. .
70-74	915	536	365	. .	2	. .	3	4	5
75-79	903	476	415	1	. .	1	3	5	2
80-84	974	463	503	1	. .	2	. .	4	1
85-89	751	300	439	1	1	1	1	4	4
90-94	396	142	244	. .	2	2	. .	5	1
95-99	97	31	65	. .	1	. .	. .	. .	. .
100 and over	16	3	11	. .	. .	2	. .	. .	. .

[1]These totals include all deaths under unit specified.

TABLE A-33

DEATHS BY MONTH OF OCCURRENCE AND RESIDENCE
OF DECEASED: UTAH, 1977

District and County of Residence	Total	Deaths by Month of Occurrence											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Total	7,612	630	601	678	682	655	610	618	616	613	624	610	675
District 1	508	38	44	34	43	34	36	46	43	38	39	71	42
Box Elder	204	13	18	11	16	18	13	20	13	19	15	28	20
Cache	295	25	26	21	25	14	23	25	29	19	24	42	22
Rich	9	. .	. .	2	2	2	. .	1	1	. .	. .	1	. .
District 2N	1,407	117	114	132	138	106	106	116	116	111	123	98	130
Davis	480	47	45	39	41	34	43	37	36	30	45	36	47
Morgan	25	. .	2	4	4	2	1	2	1	3	4	1	1
Weber	902	70	67	89	93	70	62	77	79	78	74	61	82
District 2S	3,440	296	281	325	297	293	290	277	265	274	287	270	285
Salt Lake	3,310	285	272	317	286	282	281	259	259	265	277	253	274
Tooele	130	11	9	8	11	11	9	18	6	9	10	17	11
District 3	986	75	71	79	93	90	71	76	86	84	82	72	107
Summit	49	2	4	2	4	7	4	2	4	7	5	2	6
Utah	892	69	65	74	84	79	63	70	81	73	70	67	97
Wasatch	45	4	2	3	5	4	4	4	1	4	7	3	4
District 4	376	26	21	36	38	30	34	33	28	33	32	27	38
Juab	37	6	3	. .	5	1	2	. .	5	2	6	3	4
Millard	67	4	5	6	9	7	3	5	4	9	7	3	5
Piute	9	. .	1	. .	1	2	1	1	. .	1	. .	1	1
Sanpete	140	13	6	14	12	8	13	21	9	14	9	7	14
Sevier	113	3	6	15	10	12	13	5	8	7	9	13	12
Wayne	10	. .	. .	1	1	. .	2	1	2	. .	1	. .	2
District 5	340	32	26	27	22	39	28	25	34	32	20	28	27
Beaver	39	2	7	3	5	4	2	2	5	1	2	4	2
Garfield	26	3	1	3	2	4	1	1	3	5	2	. .	1
Iron	85	7	4	8	6	13	9	7	9	7	5	4	6
Kane	30	4	1	1	2	3	4	2	1	5	3	4	. .
Washington	160	16	13	12	7	15	12	13	16	14	8	16	18
District 6	223	15	22	17	19	28	26	17	17	14	15	15	18
Daggett	3	. .	. .	. .	. .	. .	1	2	. .	. .	. .	. .	. .
Duchesne	77	5	5	5	6	13	7	6	11	4	4	6	5
Uintah	143	10	17	12	13	15	18	9	6	10	11	9	13
District 7	332	31	22	28	32	35	19	28	27	27	26	29	28
Carbon	183	18	9	14	16	19	11	16	18	8	18	17	19
Emery	49	4	4	7	5	5	3	4	2	5	2	4	4
Grand	39	4	4	3	5	5	. .	1	2	8	3	3	1
San Juan	61	5	5	4	6	6	5	7	5	6	3	5	4

TABLE A-34

DEATHS FROM DISEASES OF THE CIRCULATORY SYSTEM BY AGE AND SEX: UTAH, 1977

Age and Sex	Deaths from Diseases of the Circulatory System by ICDA Code								
	Total 390-458	Active Rheumatic Fever 390-392	Chronic Rheumatic Fever 393-398	Hypertensive Disease 400-404	Ischemic Heart Disease 410-414	Other Forms of Heart Disease 420-429	Cerebro-vascular Disease 430-438	Diseases of Arteries, Arterioles, Capillaries 440-448	Diseases of Veins and Lymphatics, and Other Diseases of Circulatory System 450-458
Total	3,527	1	99	42	2,151	284	671	199	80
Male	1,959	1	47	19	1,311	139	292	112	38
Female	1,568	. .	52	23	840	145	379	87	42
Under 45	73	1	4	2	29	11	16	6	4
Male	54	1	. .	1	26	10	11	5	. .
Female	19	. .	4	1	3	1	5	1	4
45-54	164	. .	5	. .	117	12	15	7	8
Male	129	. .	3	. .	101	7	8	5	5
Female	35	. .	2	. .	16	5	7	2	3
55-64	481	. .	32	6	329	33	53	14	14
Male	361	. .	17	2	271	24	30	10	7
Female	120	. .	15	4	58	9	23	4	7
65-74	840	. .	29	5	565	58	117	41	25
Male	553	. .	14	3	399	29	64	31	13
Female	287	. .	15	2	166	29	53	10	12
75+	1,969	. .	29	29	1,111	170	470	131	29
Male	862	. .	13	13	514	69	179	61	13
Female	1,107	. .	16	16	597	101	291	70	16

TABLE A-35

DEATHS BY SELECTED CAUSES AND COUNTY OF RESIDENCE: UTAH, 1977

Cause of Death Eighth Revision International Classification of Diseases	Total	Deaths by County of Residence																											
		Beaver	Box Elder	Cache	Carbon	Daggett	Davis	Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane	Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
All causes	7,612	39	204	295	183	3	480	77	49	26	39	85	37	30	67	25	9	9	3,310	61	140	113	49	130	143	892	45	160	10	902
Enteritis and other diarrheal diseases (008-009)	9	1	.	.	.	.	.	1	.	.	.	.	1	.	.	.	.	.	1	2	.	.	.	.	.	3	.	.	.	.
Tuberculosis, all forms (010-019)	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	1	.	.	.	.	1	.	.	.	.	.
Other infective and parasitic diseases (remainder 000-136)	57	.	2	1	.	.	5	.	.	.	2	1	1	.	1	.	.	.	24	.	.	.	.	.	2	9	1	2	.	6
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-209)	1,272	3	45	48	26	.	86	14	7	5	4	11	4	6	7	4	1	3	605	6	22	17	9	23	15	121	7	22	1	150
Malignant neoplasms of buccal cavity and pharynx (140-149)	22	.	.	1	.	.	1	.	.	.	.	.	.	1	.	.	.	.	15	.	.	.	.	1	.	1	.	1	.	1
Malignant neoplasms of digestive organs and peritoneum (150-159)	328	1	10	11	7	.	18	1	1	2	.	5	1	1	1	4	.	1	156	.	5	2	2	3	5	36	2	4	1	48
Malignant neoplasms respiratory system (160-163)	182	.	2	1	4	.	19	4	1	.	2	1	1	1	1	.	.	.	87	2	1	3	1	6	3	12	1	4	.	25
Malignant neoplasms of breast (174)	143	1	4	8	7	.	9	.	1	1	.	1	1	.	.	.	.	.	67	.	4	2	2	2	2	12	.	2	.	17
Malignant neoplasms of genital organs (180-187)	175	.	6	8	4	.	12	.	2	2	.	1	1	1	4	.	.	1	83	1	2	3	2	4	.	18	1	3	.	16
Malignant neoplasms of urinary organs (188-189)	62	.	5	3	.	.	4	1	.	.	.	2	.	.	.	.	.	.	27	.	1	.	.	1	.	6	.	.	.	12
Malignant neoplasms of all other and unspecified sites (170-173, 190-199)	155	.	9	5	4	.	6	4	2	.	1	.	.	1	1	.	.	1	83	.	4	4	1	3	2	15	1	2	.	6
Leukemia (204-207)	75	.	3	6	.	.	6	4	.	.	.	1	.	1	.	.	.	.	32	.	2	1	.	.	2	6	.	2	.	9
Other neoplasms of lymphatic and hematopoetic tissues (200-203, 208-209)	81	1	2	3	.	.	8	.	.	.	1	.	.	.	.	.	1	.	38	3	2	1	.	3	1	7	2	2	.	6
Remainder (140-209)	49	.	4	2	.	.	3	.	.	.	.	.	.	.	.	.	.	.	17	.	1	1	1	.	.	8	.	2	.	10
Benign neoplasms and neoplasms of unspecified nature (210-239)	19	.	1	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	11	.	.	.	.	1	.	2	.	.	.	2
Diabetes mellitis (250)	172	.	2	6	4	.	12	2	.	.	.	2	1	.	2	.	.	.	75	2	2	5	2	6	5	21	.	3	.	20
Aneumias (280-285)	21	.	1	.	1	.	.	.	.	.	.	.	.	.	1	1	.	.	10	.	.	.	.	1	.	3	.	.	.	3
Meningitis (320)	24	.	.	1	.	.	2	.	.	.	.	.	.	.	.	.	.	.	12	.	.	.	.	1	.	5	1	1	.	1
Major cardiovascular diseases (390-448)	3,447	26	88	150	84	.	229	26	22	14	15	35	17	16	27	11	4	4	1,478	17	60	65	21	57	53	421	24	90	7	386
Active rheumatic fever and chronic rheumatic heart disease (390-398)	100	1	.	.	2	.	6	1	1	.	.	2	.	.	1	1	.	1	48	1	3	3	.	2	.	10	1	2	.	14
Hypertension, malignant, benign, renal disease (400, 401, 403)	20	.	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	.	1	.	.	.	.	2	.	.	.	2
Hypertensive heart disease with or without renal disease (402, 404)	22	.	2	3	.	.	.	.	.	1	.	.	.	.	.	.	.	.	10	1	.	.	.	1	.	2	.	2	.	.
Ischemic heart disease (410-413)	2,151	14	54	82	67	.	152	21	14	6	12	22	11	7	10	10	1	2	911	6	39	34	12	43	40	259	9	50	4	259
Chronic disease of endocardium and other myocardial insufficiency (424, 428)	17	.	.	.	.	.	.	.	1	.	1	.	.	.	.	.	.	.	8	.	1	.	.	.	1	3	.	.	.	2
Illdefined heart disease (429)	267	2	8	7	1	.	19	1	2	3	1	3	.	2	5	.	.	1	122	4	3	7	5	1	3	35	4	11	1	16
Cerebrovascular disease (430-438)	671	7	21	52	11	.	32	1	2	4	1	5	5	7	10	.	3	.	279	5	7	20	2	7	8	81	7	21	2	71
Arteriosclerosis (440)	104	1	1	2	2	.	6	1	.	.	.	3	1	.	1	.	.	.	46	.	3	1	2	1	1	18	2	2	.	10
Other diseases of arteries, arterioles and capillaries (441-448)	95	1	1	3	1	.	14	1	2	.	.	.	.	.	.	.	.	.	41	.	3	.	.	2	.	11	1	2	.	12

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	Total	Beaver	Box Elde	Cache	Carbon	Daggett	Davis	Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane	Millard	Morgan	Piute	Rich	Salt Lak	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Washingt	Wayne	Weber
Acute bronchitis and bronchiolitis (466)	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Influenza and pneumonia (470-474, 480-486)	224	1	3	7	8	.	11	2	1	.	.	3	2	.	5	.	1	.	102	3	8	1	1	3	4	28	1	6	1	22
Influenza (470-474)	7	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	4	.	1	.	.	.	.	1	.	.	.	.
Pneumonia (480-486)	217	1	3	7	8	.	10	2	1	.	.	3	2	.	5	.	1	.	98	3	7	1	1	3	4	27	1	6	1	22
Bronchitis, emphysema, and asthma (490-493)	118	.	4	7	1	.	6	1	1	1	2	2	3	.	1	.	.	.	54	1	.	.	.	2	1	18	.	4	.	9
Chronic and unqualified bronchitis (490, 491)	31	.	.	2	.	.	4	.	.	.	.	.	.	.	1	.	.	.	15	1	.	.	.	1	.	4	.	1	.	2
Emphysema (492)	84	.	4	4	1	.	1	1	1	1	2	2	3	.	.	.	.	.	38	.	.	.	.	1	1	14	.	3	.	7
Asthma (493)	3	.	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Peptic ulcer (531-533)	32	.	2	.	1	.	2	.	.	.	.	1	4	.	.	.	.	.	10	.	3	.	.	.	.	2	.	.	.	7
Hernia and intestinal obstruction (550-553, 560)	36	.	.	.	2	.	4	2	1	.	.	.	.	.	.	.	.	.	9	1	.	.	.	.	.	9	.	.	.	8
Cirrhosis of liver (571)	121	.	4	1	6	.	4	1	.	.	.	1	1	.	.	.	1	.	56	1	.	.	.	5	6	10	.	.	.	24
Cholelithiasis, cholecyctitis and cholangitis (574, 575)	9	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	3	.	.	.	3
Nephritis and nephrosis (580-584)	18	.	.	1	.	.	1	.	1	.	.	1	.	.	1	.	.	.	8	.	.	.	1	.	1	2	.	.	.	1
Infections of kidney (590)	14	.	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.	.	.	3	.	.	.	2
Hyperplasia of prostate (600)	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Complications of pregnancy, childbirth, and the puerperium (630-678)	4	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	1
Congenital anomalies (740-759)	135	.	3	3	2	.	17	.	1	.	2	1	1	.	1	.	.	.	48	3	.	2	2	3	6	26	2	2	.	10
Certain causes of mortality in early infancy (760-769.4-772, 774-778)	152	.	3	4	7	.	10	4	1	1	1	2	.	.	2	1	.	1	45	2	6	1	1	2	9	29	1	1	.	1[illegible]
Symptoms and illdefined conditions (780-796)	176	.	5	9	6	1	8	2	2	.	.	5	3	1	2	.	.	.	66	2	7	3	.	2	3	21	.	2	.	26
Accidents (E800-E949)	618	3	14	24	17	2	33	20	8	2	5	6	3	4	10	2	.	1	237	16	15	9	6	9	18	61	5	11	.	77
Motor vehicle accidents (E810-E823)	336	1	8	9	8	.	16	16	4	1	3	2	2	2	5	1	.	.	135	13	9	6	1	3	10	34	2	8	.	37
All other accidents (E800-E807, E825-E949)	282	2	6	15	9	2	17	4	4	1	2	4	1	2	5	1	.	1	102	3	6	3	5	6	8	27	3	3	.	40
Suicide (E950-E959)	180	1	4	4	2	.	14	1	1	.	1	3	.	1	.	.	.	.	88	2	4	.	2	3	5	20	1	2	.	21
Homicide (E960-E978)	52	.	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.	33	1	1	.	.	1	2		1	1	.	7
Injury undetermined whether accidentally or purposely inflicted (E980-E989)	20	1	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	9	.	1	.	1	.	.	2	.	.	.	4
All other causes	674	3	23	25	16	.	29	2	2	3	5	8	1	2	7	6	2	.	313	1	11	10	3	11	12	70	1	13	1	94

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TABLE A-36

RESIDENT DEATHS BY SELECTED CAUSE AND AGE: UTAH, 1977

ICDA Code 8th Rev.	Cause of Death	All Ages		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75 & Over
		Number	Rate[1]										
	All causes	7,612	599.4	381	81	79	272	238	221	505	1,071	1,627	3,137
008-009	Enteritis and other diarrheal diseases	9	0.7	6	. .	. .	. .	. .	. .	. .	. .	. .	3
010-019	Tuberculosis, all forms	6	0.5	. .	. .	. .	. .	. .	. .	. .	2	1	3
000-136	Other infective and parasitic diseases	57	4.5	13	1	1	2	2	. .	6	8	9	15
140-209	Malignant neoplasms	1,272	100.1	. .	9	14	10	23	34	131	287	364	400
140-149	*Buccal cavity and pharynx*	*22*	*1.7*	. .	. .	. .	. .	. .	. .	*4*	*7*	*7*	*4*
150-159	*Malignant neoplasms of digestive organs and peritoneum*	*328*	*25.8*	. .	. .	. .	. .	*8*	*3*	*27*	*85*	*82*	*118*
160-163	*Malignant neoplasms of respiratory system*	*182*	*14.3*	. .	. .	. .	. .	*1*	*2*	*22*	*48*	*67*	*42*
174	*Malignant neoplasms of breast*	*143*	*11.3*	. .	. .	. .	. .	*1*	*7*	*28*	*39*	*32*	*39*
180-187	*Malignant neoplasms of genital organs*	*175*	*13.8*	. .	. .	. .	. .	*3*	. .	*12*	*31*	*56*	*73*
188, 189	*Malignant neoplasms of urinary organs*	*62*	*4.9*	. .	. .	. .	*1*	*2*	*1*	*4*	*10*	*17*	*27*
190-199	*Malignant neoplasms of all other unspecified sites*	*155*	*12.2*	. .	*3*	*1*	*2*	*4*	*7*	*16*	*28*	*47*	*47*
204-207	*Leukemia*	*75*	*5.9*	. .	*4*	*8*	*1*	*4*	*5*	*4*	*17*	*18*	*13*
208, 209	*Other neoplasms of lymphatic and hematopoietic tissues*	*81*	*6.4*	. .	*2*	*3*	*2*	*2*	*3*	*14*	*14*	*21*	*20*
	Balance of malignant neoplasms	*49*	*3.9*	. .	. .	*2*	*4*	*3*	*6*	*3*	*6*	*12*	*11*
210-239	Benign neoplasms and neoplasms of unspecified nature	19	1.5	1	. .	1	1	. .	. .	1	4	7	4
250	Diabetes melitis	172	13.5	. .	1	. .	1	12	7	16	18	41	76
280-285	Anemias	21	1.7	. .	2	1	. .	. .	1	1	1	3	12
320	Meningitis	24	1.9	12	4	. .	. .	3	. .	1	2	1	1
390-448	Major cardiovascular diseases	3,447	271.4	4	1	1	10	13	40	156	467	815	1,940
390-398	*Active rheumatic fever and chronic rheumatic heart disease*	*100*	*7.9*	. .	. .	*1*	. .	*2*	*2*	*6*	*32*	*23*	*28*
400-401	*Hypertension*	*20*	*1.6*	. .	. .	. .	*1*	*1*	. .	. .	*4*	*3*	*11*
402-404	*Hypertensive heart disease with or without renal disease*	*22*	*1.7*	. .	. .	. .	. .	. .	. .	. .	*2*	*2*	*18*
410-413	*Ischemic heart disease*	*2,151*	*169.4*	. .	. .	. .	. .	*2*	*27*	*117*	*329*	*568*	*1,111*
424, 428	*Chronic disease of endocardium and other myocardial insufficiency*	*17*	*1.3*	. .	. .	. .	. .	. .	. .	*2*	*2*	*1*	*12*
429	*Illdefined heart disease*	*267*	*21.0*	. .	. .	. .	*4*	*3*	*4*	*10*	*31*	*67*	*158*
430-438	*Cerebrovascular disease*	*671*	*52.8*	*2*	*1*	. .	*4*	*3*	*5*	*15*	*53*	*117*	*470*
440	*Arteriosclerosis*	*104*	*8.2*	. .	. .	. .	. .	. .	. .	. .	*1*	*14*	*89*
441-448	*Other diseases of arteries, arterioles and capillaries*	*95*	*7.5*	*1*	. .	. .	*1*	*2*	*2*	*7*	*13*	*27*	*42*
470-486	Influenza and pneumonia	224	17.6	6	3	2	1	2	6	11	13	32	148
470-474	*Influenza*	*7*	*0.6*	. .	*1*	. .	. .	*1*	*1*	*1*	. .	*3*	. .
480-486	*Pneumonia*	*217*	*17.1*	*6*	*2*	*2*	*1*	*1*	*5*	*10*	*13*	*29*	*148*
490-493	Bronchitis, emphysema, and asthma	118	9.3	1	. .	. .	. .	1	. .	8	18	46	44
490-491	*Chronic and unqualified bronchitis*	*31*	*2.4*	*1*	. .	. .	. .	*1*	. .	*2*	*6*	*10*	*11*
492	*Emphysema*	*84*	*6.6*	. .	. .	. .	. .		. .	*6*	*12*	*36*	*31*
493	*Asthma*	*3*	*0.2*	. .	. .	. .	. .	. .	. .	*1*	. .	. .	*2*
531-533	Peptic ulcer	32	2.5	1	. .	. .	. .	. .	1	1	4	6	19
550-560	Hernia and intestinal obstruction	36	2.8	9	. .	. .	. .	.	1	1	3	6	16
571	Cirrhosis of liver	121	9.5	. .	. .	. .	. .	6	8	39	41	19	8
574, 575	Cholelithiasis, cholecystitis and cholangitis	9	0.7	. .	. .	. .	. .	. .	. .	. .	2	3	4
580-584	Nephritis and nephrosis	18	1.4	1	. .	. .	. .	2	2	. .	1	3	9
590	Infections of kidney	14	1.1	. .	. .	. .	. .	1	. .	3	1	. .	9
630-678	Complications of pregnancy	4	0.3	. .	. .	. .	1	1	2	. .	. .	. .	. .
740-759	Congenital anomalies	135	10.6	98	11	4	7	3	4	2	2	2	2
760-778	Certain causes of mortality in early infancy	152	12.0	152	. .	. .	. .	. .	. .	. .	. .	. .	. .
780-796	Symptoms and illdefined conditions	176	13.9	49	1	2	7	2	4	9	12	22	68
E800-E949	Accidents	618	48.7	7	35	39	165	90	46	39	55	59	83
E810-E823	*Motor vehicle accidents*	*336*	*26.5*	*4*	*23*	*22*	*113*	*64*	*23*	*22*	*26*	*27*	*22*
E825-E949	*All other accidents*	*282*	*22.2*	*3*	*12*	*17*	*52*	*36*	*23*	*17*	*29*	*32*	*61*
E950-E959	Suicides	180	14.2	. .	. .	2	42	35	29	28	24	14	6
E960-E978	Homicides	52	4.1	2	5	2	10	12	7	5	3	4	2
E980-E999	Injury undetermined whether accidentally or purposely inflicted	20	1.6	2	1	. .	3	7	. .	2	4	1	. .
	All other causes	676	-	17	7	10	12	23	29	45	99	169	265

[1]Rate per 100,000 population.

TABLE A-37

DEATHS BY RESIDENCE AND MAJOR DEATH CLASSIFICATION: UTAH, 1977

District and County of Residence	Total	Deaths by Major Classification			
		Chronic and Old Age	Preventable	Violent	Residual
Total	7,612	5,498	812	973	329
District 1	508	392	44	51	21
Box Elder	204	157	17	21	9
Cache	295	228	26	29	12
Rich	9	7	1	1	. .
District 2N	1,407	1,008	160	187	52
Davis	480	346	65	54	15
Morgan	25	18	2	2	3
Weber	902	644	93	131	34
District 2S	3,440	2,526	315	433	166
Salt Lake	3,310	2,432	301	415	162
Tooele	130	94	14	18	4
District 3	986	691	136	112	47
Summit	49	31	6	9	3
Utah	892	628	124	96	44
Wasatch	45	32	6	7	. .
District 4	376	272	45	45	14
Juab	37	25	7	4	1
Millard	67	43	9	10	5
Piute	9	6	1	. .	2
Sanpete	140	96	18	22	4
Sevier	113	92	10	9	2
Wayne	10	10	. .	. .	. .
District 5	340	263	28	35	14
Beaver	39	32	2	5	. .
Garfield	26	21	1	2	2
Iron	85	59	13	9	4
Kane	30	22	1	5	2
Washington	160	129	11	14	6
District 6	223	127	38	53	5
Daggett	3	. .	1	2	. .
Duchesne	77	46	10	21	. .
Uintah	143	81	27	30	5
District 7	332	219	46	57	10
Carbon	183	135	21	21	6
Emery	49	35	4	9	1
Grand	39	22	8	6	3
San Juan	61	27	13	21	. .

TABLE A-38

DEATHS BY AGE, SEX, AND MAJOR DEATH CLASSIFICATION: UTAH, 1977

Class of Death	Deaths by Age								
	Total	Under 15	15-24	25-34	35-44	45-54	55-64	65-74	75+
Total	7,612	541	272	238	221	505	1,071	1,627	3,137
Male	4,320	325	215	171	153	324	683	1,006	1,443
Female	3,291	216	57	67	68	181	388	621	1,693
Sex unknown	1	. .	. .	. .	. .	. .	. .	. .	1
Chronic and old age	5,498	47	20	44	63	241	831	1,440	2,812
Male	2,962	29	15	24	39	138	524	895	1,298
Female	2,535	18	5	20	24	103	307	545	1,513
Sex unknown	1	. .	. .	. .	. .	. .	. .	. .	1
Preventable	812	371	19	28	45	135	85	35	94
Male	492	223	10	18	33	98	56	19	35
Female	320	148	9	10	12	37	29	16	59
Violent	973	95	221	150	93	110	118	91	95
Male	714	62	182	122	66	81	83	65	53
Female	259	33	39	28	27	29	35	26	42
All other	329	28	12	16	20	19	37	61	136
Male	152	11	8	7	15	7	20	27	57
Female	177	17	4	9	5	12	17	34	79

TABLE A-39

VIOLENT DEATHS TO RESIDENTS BY AGE, SEX, AND CAUSE: UTAH, 1977

Age and Sex	Violent Deaths by Cause					
	Total	Accident E800-E949	Alcoholism 291, 303 571.0	Suicide E950-E959	Homicide E960-E979	Undetermined If Injury Was Inflicted Accidentally or Purposely E980-E989
Total	973	618	103	180	52	20
Under 15	95	81	. .	2	9	3
Male	62	53	. .	2	7	. .
Female	33	28	. .	. .	2	3
15-19	102	79	1	17	4	1
Male	78	58	1	17	2	. .
Female	24	21	. .	. .	2	1
20-24	119	86	. .	25	6	2
Male	104	73	. .	23	6	2
Female	15	13	. .	2	. .	. .
25-34	150	90	6	35	12	7
Male	122	71	5	29	11	6
Female	28	19	1	6	1	1
35-44	93	46	11	29	7	. .
Male	66	30	7	23	6	. .
Female	27	16	4	6	1	. .
45-54	110	39	36	28	5	2
Male	81	33	23	21	3	1
Female	29	6	13	7	2	1
55-64	118	55	32	24	3	4
Male	83	40	25	14	2	2
Female	35	15	7	10	1	2
65-74	91	59	13	14	4	1
Male	65	41	8	12	4	. .
Female	26	18	5	2	. .	1
75-84	60	51	4	4	1	. .
Male	38	30	4	4	. .	. .
Female	22	21	. .	. .	1	. .
85 and over	35	32	. .	2	1	. .
Male	15	13	. .	2	. .	. .
Female	20	19	. .	. .	1	. .

TABLE A-40

VIOLENT DEATHS BY RESIDENCE AND CAUSE: UTAH, 1977

District and County of Residence	Total	Accident E800-E949	Alcoholism 291, 303 571.0	Homicide E960-E979	Suicide E950-E959	Undetermined If Injury Was Inflicted Accidentally or Purposely E980-E989
Total	973	618	103	52	180	20
District 1	51	39	3	1	8	. .
Box Elder	21	14	3	. .	4	. .
Cache	29	24	. .	1	4	. .
Rich	1	1	. .	. .	. .	. .
District 2N	187	112	26	8	35	6
Davis	54	33	4	1	14	2
Morgan	2	2	. .	. .	. .	. .
Weber	131	77	22	7	21	4
Davis 2S	433	246	53	34	91	9
Salt Lake	415	237	48	33	88	9
Tooele	18	9	5	1	3	. .
District 3	112	72	10	4	23	3
Summit	9	6	. .	. .	2	1
Utah	96	61	10	3	20	2
Wasatch	7	5	. .	1	1	. .
District 4	45	37	2	1	4	1
Juab	4	3	1	. .	. .	. .
Millard	10	10	. .	. .	. .	. .
Sanpete	22	15	1	1	4	1
Sevier	9	9	. .	. .	. .	. .
District 5	35	26	. .	1	7	1
Beaver	5	3	. .	. .	1	1
Garfield	2	2	. .	. .	. .	. .
Iron	9	6	. .	. .	3	. .
Kane	5	4	. .	. .	1	. .
Washington	14	11	. .	1	2	. .
District 6	53	40	5	2	6	. .
Daggett	2	2	. .	. .	. .	. .
Duchesne	21	20	. .	. .	1	. .
Uintah	30	18	5	2	5	. .
District 7	57	46	4	1	6	. .
Carbon	21	17	2	. .	2	. .
Emery	9	8	. .	. .	1	. .
Grand	6	5	. .	. .	1	. .
San Juan	21	16	2	1	2	. .

TABLE A-41

VIOLENT DEATHS BY RACE, SEX, AND CAUSE: UTAH, 1977

Race and Sex	Total	Accident E800-E949	Alcoholism 291, 303 571.0	Suicide E950-E959	Homicide E960-E979	Undetermined If Injury Was Inflicted Accidentally or Purposely E980-E989
Total	973	618	103	180	52	20
Male	714	442	73	147	41	11
Female	259	176	30	33	11	9
White	911	588	89	174	43	17
Male	667	418	64	142	33	10
Female	244	170	25	32	10	7
Black	15	5	3	2	4	1
Male	13	5	2	2	3	1
Female	2	. .	1	. .	1	. .
Indian	43	25	10	3	4	1
Male	31	19	6	2	4	. .
Female	12	6	4	1	. .	1
Other nonwhite	4	. .	1	1	1	1
Male	3	. .	1	1	1	. .
Female	1	. .	. .	. .	. .	1

TABLE A-42

VIOLENT DEATHS DUE TO POISONING BY AGE, SEX, AND CAUSE: UTAH, 1977

Cause of Death and Sex of Deceased	Total	Deaths by Age				
		Under 15	15-24	25-44	45-64	65+
Total violent deaths due to poisoning (E850-E982)	75	2	17	27	20	9
Male	49	2	14	19	8	6
Female	26	. .	3	8	12	3
Accident (E850-E877)	13	2	5	5	1	. .
Male	9	2	4	3	. .	. .
Female	4	. .	1	2	1	. .
Drugs and medicants (E850-E859)	5	1	2	2	. .	. .
Male	2	1	1	. .	. .	. .
Female	3	. .	1	2	. .	. .
Other solid or liquid substances (E860-E869)	5	1	2	1	1	. .
Male	4	1	2	1	. .	. .
Female	1	. .	. .	. .	1	. .
Gases and vapors (E870-E877)	3	. .	1	2	. .	. .
Male	3	. .	1	2	. .	. .
Female	. .	. .	. .	. .	. .	. .
Suicide and self-inflicted poisoning (E950-E952	53	. .	12	17	16	8
Male	34	. .	10	12	6	6
Female	19	. .	2	5	10	2
Solid or liquid substances (E950)	35	. .	8	6	16	5
Male	18	. .	6	2	6	4
Female	17	. .	2	4	10	1
Other gases (E952)	18	. .	4	11	. .	3
Male	16	. .	4	10	. .	2
Female	2	. .	. .	1	. .	1
Undetermined whether accidentally or purposely inflicted (E980-E982)	9	. .	. .	5	3	1
Male	6	. .	. .	4	2	. .
Female	3	. .	. .	1	1	1
Solid or liquid substances (E980)	9	. .	. .	5	3	1
Male	6	. .	. .	4	2	. .
Female	3	. .	. .	1	1	1
Other gases (E982)	. .	. .	. .	. .	. .	. .
Male	. .	. .	. .	. .	. .	. .
Female	. .	. .	. .	. .	. .	. .

TABLE A-43

VIOLENT DEATHS DUE TO FIREARMS AND EXPLOSIVE MATERIAL BY AGE, SEX, AND TYPE OF DEATH: UTAH, 1977

Cause of Death and Sex of Deceased	Total	Deaths by Age				
		Under 15	15-24	25-44	45-64	65+
Total violent deaths due to firearm missiles and explosive materials	146	7	33	55	35	16
Male	130	6	33	47	30	14
Female	16	1	. .	8	5	2
Accident (E922-E923)	12	3	2	4	3	. .
Male	9	2	2	3	2	. .
Female	3	1	. .	1	1	. .
Suicide and self-inflicted injury (E955)	106	1	26	38	30	11
Male	98	1	26	33	27	11
Female	8	. .	. .	5	3	. .
Assault (E965)	26	3	5	12	1	5
Male	21	3	5	10	. .	3
Female	5	. .	. .	2	1	2
Undetermined whether accidentally or purposely inflicted (E985)	2	. .	. .	1	1	. .
Male	2	. .	. .	1	1	. .
Female	. .	. .	. .	. .	. .	. .

TABLE A-44

SUICIDE BY AGE, SEX, AND METHOD: UTAH, 1977

Age and Sex	Total E950-E959	Solid or Liquid Substances E950	Gases Other Than Domestics E952	Hanging or Suffocation E953	Drowning E954	Firearms and Explosives E955	Cutting and Piercing Instruments E956	Jumping from a High Place E957	Other and Unspecified Means
Total	180	35	18	17	. .	106	. .	3	1
Male	147	18	16	13	. .	98	. .	2	. .
Female	33	17	2	4	. .	8	. .	1	1
Under 15	2	. .	. .	1	. .	1	. .	. .	. .
Male	2	. .	. .	1	. .	1	. .	. .	. .
Female	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-24	42	8	4	2	. .	26	. .	2	. .
Male	40	6	4	2	. .	26	. .	2	. .
Female	2	2	. .	. .	. .	. .	. .	. .	. .
25-34	35	3	4	6	. .	21	. .	1	. .
Male	29	2	4	5	. .	18	. .	. .	. .
Female	6	1	. .	1	. .	3	. .	1	. .
35-44	29	3	7	2	. .	17	. .	. .	. .
Male	23	. .	6	2	. .	15	. .	. .	. .
Female	6	3	1	. .	. .	2	. .	. .	. .
45-54	28	11	. .	1	. .	16	. .	. .	. .
Male	21	5	. .	1	. .	15	. .	. .	. .
Female	7	6	. .	. .	. .	1	. .	. .	. .
55-64	24	5	. .	4	. .	14	. .	. .	1
Male	14	1	. .	1	. .	12	. .	. .	. .
Female	10	4	. .	3	. .	2	. .	. .	1
65-74	14	5	3	1	. .	5	. .	. .	. .
Male	12	4	2	1	. .	5	. .	. .	. .
Female	2	1	1	. .	. .	. .	. .	. .	. .
75+	6	. .	. .	. .	. .	6	. .	. .	. .
Male	6	. .	. .	. .	. .	6	. .	. .	. .
Female	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-45

ACCIDENTAL DEATH OCCURRENCES BY AGE, SEX, AND TYPE OF ACCIDENT: UTAH, 1977

Type of Accident	Total	Accidental Deaths by Age and Sex													
		Under 15		15-24		25-34		35-44		45-54		55-64		65+	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	687	60	33	150	38	82	24	26	18	40	11	43	18	83	61
Railway (E800-E807)	9	. .	. .	3	1	1	. .	. .	. .	2	. .	2	. .	. .	. .
Motor vehicle (E810-E823)	381	36	23	93	33	49	19	12	11	19	11	19	9	32	15
Water transport (E830-E838)	1	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Air and space transport (E840-E845)	35	. .	. .	10	2	12	2	4	1	3	. .	1	. .	. .	. .
Poisoning (E850-E877)	17	2	1	4	1	2	1	2	1	. .	. .	. .	1	2	. .
Falls (E880-E887)	102	1	1	6	. .	5	1	1	1	5	. .	6	1	36	38
Fire and flames (E890-E899)	23	1	3	3	. .	2		1	. .	1	. .	3	3	3	2
Nature and environment (E900-E909)	18	1	. .	5	1	1	. .	1	. .	3	. .	3	1	1	1
Drowning and submersion (E910)	25	7	2	12	. .	2	. .	1	. .	. .	. .	. .	. .	. .	1
Inhalation and ingestion of food causing obstruction or suffocation (E911)	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	1	. .
Inhalation and ingestion of other object causing obstruction or suffocation (E912)	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .
Mechanical suffocation (E913)	9	5	1	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Hit by object (E916-E918)	23	3	. .	5	. .	2	. .	3	. .	5	. .	4	. .	1	. .
Firearm missiles (E922)	7	1	1	2	. .	2	. .	. .	1	. .	. .	. .	. .	. .	. .
Explosive materials (E923)	5	1	. .	. .	. .	1	. .	. .	. .	. .	. .	2	1	. .	. .
Electric current (E925)	7	. .	. .	2	. .	2	. .	1	1	. .	. .	. .	. .	. .	1
Machinery (E928)	8	. .	1	2	. .	. .	. .	. .	1	1	. .	2	. .	1	. .
Surgical and medical (E930-E936)	8	2	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	3	2
Late effects of accidental injury (E940-E949)	6	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	1	. .	3	1

TABLE A-46

ACCIDENTAL DEATHS BY MONTH OF DEATH AND TYPE OF ACCIDENT: UTAH, 1977

Type of Accident	Total	Accidental Deaths by Month of Death											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Total	687	44	41	46	43	50	75	80	82	56	78	39	53
Railway (E800-E807	9	1	1	2	. .	. .	. .	1	2	1	. .	1	. . .
Motor vehicle (E810-E823)	381	22	22	28	20	31	41	51	46	31	42	22	25
Water transport (E830-E838)	1	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .
Air and space transport (E840-E845	35	2	5	. .	7	. .	2	. .	3	2	9	. .	5
Poisoning (E850-E877)	17	2	. .	. .	3	. .	1	3	. .	2	5	1	. .
Falls (E880-E887)	102	6	6	9	6	6	11	8	13	9	8	6	14
Fire and flames (E890-E899)	23	3	. .	. .	1	3	2	3	4	3	1	1	2
Nature and environment (E900-E909	18	. .	1	2	. .	1	3	. .	2	3	4	. .	2
Drowning and submersion (E910)	25	. .	1	. .	1	1	8	5	6	1	1	1	. .
Inhalation and ingestion of food causing obstruction or suffocation (911)	2	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	1	. .
Inhalation and ingestion of other object causing obstruction or suffocation (E912)	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .
Mechanical suffocation E913	9	2	1	2	1	. .	. .	1	1	. .	1	. .	. .
Hit by object (E916-E918)	23	3	. .	1	. .	1	2	3	3	3	3	3	1
Firearm missiles (E922)	7	1	. .	. .	. .	. .	1	. .	. .	. .	2	. .	3
Explosive materials (E923)	5	1	1	. .	1	1	. .	1	. .	. .	. .	. .	. .
Electric current (E925)	7	1	. .	. .	. .	2	1	1	1	. .	1	. .	. .
Machinery (E928)	8	. .	1	. .	2	. .	1	2	. .	. .	. .	1	1
Surgical and medical (E930-E936)	8	. .	1	1	1	2	. .	. .	1	1	. .	1	. .
Late effects of accidental injury (E940-E949)	6	. .	1	1	. .	1	1	1	. .	. .	. .	1	. .

TECHNICAL APPENDIX

TECHNICAL APPENDIX

Vital Statistics Registration in Utah

Centralized vital statistics registration for the State of Utah was first established by act of the Utah Legislature in 1905. The latest revision of the law is found in the 1953 Session Laws, Sections 26-15-9 to 26-15-10 as follows:

> The State Division of Health shall have and exercise the following powers and duties in addition to all other powers and duties imposed on it by law:
>
> a. Provide suitable offices properly equipped for the preservation of all records made or received under the provision of this act;
> b. Install a state-wide system of vital statistics;
> c. Prescribe forms for the collection, compilation, publication, and preservation of vital statistics;
> d. Enforce this act and its regulations made pursuant thereto;
> e. Appoint a Director of Vital Statistics;
> f. Divide the State from time to time into registration districts which will conform to political subdivisions or a combination thereof, or parts thereof;
> g. Appoint local registration officers for such registration districts as are established by the division. Such local registration officers, under the direction and supervision of the division, shall perform all duties required of them by this act and the regulations of the board.

Under Utah statutes, full-time health officers of local health departments become ex officio logal registrars and are responsible for the registration of certificates for all births and deaths that occur within their respective jurisdictions. Four of the 29 counties (Salt Lake, Utah, Weber, and Davis), one city (Logan), and three multicounty districts--Southeast (Carbon, Emery, Grand, and San Juan Counties), Bear River (Box Elder, Cache, and Rich Counties), and Southwest (Beaver, Garfield, Iron, Kane, and Washington Counties) maintain full-time local registrars. The local registrars within the remaining 13 counties are appointed by the State and usually perform their duties on a part-time

basis, and in many cases simultaneously assume other positions within their community. The map of the State of Utah (Figure C-1) indicates the location of the local registrars within each of the 29 counties. Presently, there are 23 local registrars and 14 deputy local registrars in the State.

Source of Data

Vital statistics certificates filed with the state Bureau of Health Statistics are the primary source of data presented within this report. These records include certificates of live birth, death, and fetal death. Source data for morbidity statistics and population estimates are provided by the State Department of Health and the United States Bureau of the Census.

Certified Revision

The Utah certificates of live birth, death, and fetal death have been revised periodically; the most recent revision occurring in 1976 for certificate of death, and 1968 for certificates of birth and fetal death. These certificates were adopted by the State Board of Health and distributed to the local registrars for use commencing January 1, 1976 and January 1, 1968, respectively (Figures C-2, C-3, and C-4). The new certificates were modeled directly after the recommended national "Standard Certificates."

Quality and Limitations of Data

Limitations of the data must be recognized before valid interpretation is possible. For vital statistics data, these limitations are related to the difficulties in reporting and classifying information, and to some under-registration of events. It is necessary to exercise particular caution when evaluating vital statistics trend data, since medical concepts, code definitions, and method of assigning causes of death have changed over the years.

The completeness of registration for births was last tested at the state level in conjunction with the 1950 U.S. Census of the population and was found to be 98.7 percent complete at that time. At the present time, more than 99 percent of all Utah births occur in hospitals. This

FIGURE C-1

UTAH COUNTIES WITH LOCATION OF LOCAL REGISTRARS
OF VITAL STATISTICS

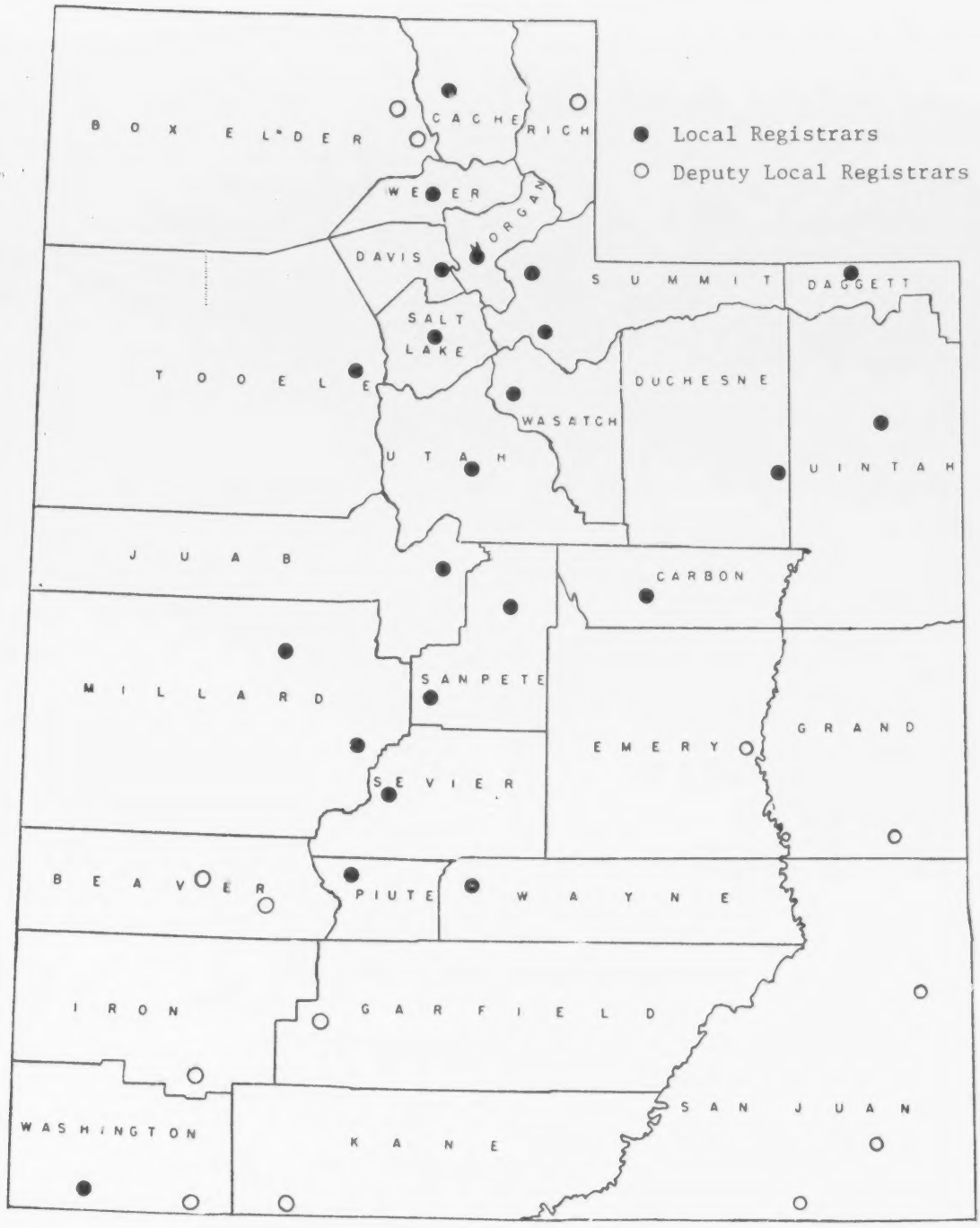

FIGURE C-2

UTAH STATE DIVISION OF HEALTH

CERTIFICATE OF LIVE BIRTH

TYPE, OR PRINT IN **PERMANENT INK** SEE HANDBOOK FOR INSTRUCTIONS

LOCAL FILE NUMBER

BIRTH NUMBER

CHILD

CHILD NAME (FIRST, MIDDLE, LAST) 1 | DATE OF BIRTH (MONTH, DAY, YEAR) 2a | HOUR 2b AM

SEX 3 | THIS BIRTH — SINGLE, TWIN, TRIPLET, ETC (SPECIFY) 4a | IF NOT SINGLE BIRTH — BORN FIRST, SECOND, THIRD, ETC (SPECIFY) 4b | COUNTY OF BIRTH 5a

CITY, TOWN, OR LOCATION OF BIRTH 5b | INSIDE CITY LIMITS (SPECIFY YES OR NO) 5c | HOSPITAL — NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER) 5d

MOTHER

MOTHER — MAIDEN NAME (FIRST, MIDDLE, LAST) 6a | AGE (AT TIME OF THIS BIRTH) 6b | STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY) 6c

RESIDENCE — STATE 7a | COUNTY 7b | CITY, TOWN, OR LOCATION 7c | INSIDE CITY LIMITS (SPECIFY YES OR NO) 7d | STREET AND NUMBER 7e

FATHER

FATHER — NAME (FIRST, MIDDLE, LAST) 8a | AGE (AT TIME OF THIS BIRTH) 8b | STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY) 8c

INFORMANT 9a | RELATION TO CHILD 9b

CERTIFIER

I CERTIFY THAT THE ABOVE NAMED CHILD WAS BORN ALIVE AT THE PLACE AND TIME AND ON THE DATE STATED ABOVE

10a SIGNATURE | DATE SIGNED (MONTH, DAY, YEAR) 10b | ATTENDANT — M.D., D.O., MIDWIFE, OTHER (SPECIFY) 10c

CERTIFIER — NAME (TYPE OR PRINT) 10d | MAILING ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP) 10e

REGISTRAR — SIGNATURE 11a | DATE RECEIVED BY LOCAL REGISTRAR (MONTH, DAY, YEAR) 11b

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FATHER

RACE — FATHER (WHITE, NEGRO, AMERICAN INDIAN, ETC (SPECIFY)) 12 | EDUCATION — SPECIFY HIGHEST GRADE COMPLETED: ELEMENTARY (0, 1, 2, 3, 4, OR 8) 13 | HIGH SCHOOL (1, 2, 3, OR 4) | COLLEGE (1, 2, 3, 4, OR 5 +)

PREVIOUS DELIVERIES — HOW MANY OTHER CHILDREN: ARE NOW LIVING 14a | WERE BORN ALIVE NOW DEAD 14b | WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION) 14c

MOTHER

RACE — MOTHER (WHITE, NEGRO, AMERICAN INDIAN, ETC (SPECIFY)) 15 | EDUCATION — SPECIFY HIGHEST GRADE COMPLETED: ELEMENTARY (0, 1, 2, 3, 4, OR 8) 16 | HIGH SCHOOL (1, 2, 3, OR 4) | COLLEGE (1, 2, 3, 4, OR 5 +)

DATE OF LAST LIVE BIRTH (MONTH, DAY, YEAR) 17a | DATE OF LAST FETAL DEATH (MONTH, DAY, YEAR) 17b

DATE LAST NORMAL MENSES BEGAN (MONTH, DAY, YEAR) 18 | MONTH OF PREGNANCY PRENATAL CARE BEGAN (FIRST, SECOND, THIRD, ETC (SPECIFY)) 19a | PRENATAL VISITS TOTAL NUMBER (IF NONE, SO STATE) 19b | LEGITIMATE (SPECIFY YES OR NO) 20 | BIRTH WEIGHT 21 | PROPHYLACTIC DRUG USED 21a

DEATH UNDER ONE YEAR OF AGE ENTER STATE FILE NUMBER OF DEATH CERTIFICATE FOR THIS CHILD

COMPLICATIONS RELATED TO PREGNANCY (DESCRIBE OR WRITE NONE) 22 | BIRTH INJURIES TO CHILD (DESCRIBE OR WRITE NONE) 23

COMPLICATIONS NOT RELATED TO PREGNANCY (DESCRIBE OR WRITE NONE) 24 | CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (DESCRIBE OR WRITE NONE) 25

MULTIPLE BIRTHS ENTER STATE FILE NUMBER FOR MATE(S)

COMPLICATIONS OF LABOR (DESCRIBE OR WRITE NONE) 26 | 27a PKU TEST DATE | 27b SEROLOGICAL TEST DATE | 27c Rh FACTOR Mother Father

LIVE BIRTH(S)

FETAL DEATH(S)

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UTAH STATE DIVISION OF HEALTH

CERTIFICATE OF DEATH

LOCAL FILE NUMBER — STATE FILE NUMBER

DECEDENT PERSONAL DATA

1a. NAME OF DECEDENT – FIRST MIDDLE LAST

2a. DATE OF DEATH – MONTH DAY YEAR

2b. TIME OF DEATH (24 HOUR CLOCK)

3. SEX

4. RACE (WHITE, BLACK, INDIAN, ETC.)

5. BIRTHPLACE (STATE OR FOREIGN COUNTRY)

6. DATE OF BIRTH (MONTH DAY, YEAR)

7. AGE (LAST BIRTH DAY) YEARS — IF UNDER 1 YEAR: MONTHS, DAYS — IF UNDER 24 HOURS: HOURS, MINUTES

8. CITIZEN OF WHAT COUNTRY

9. SOCIAL SECURITY NUMBER

10. MARRIED, NEVER MARRIED, WIDOWED, DIVORCED (Specify)

11. NAME OF SURVIVING SPOUSE (IF WIFE, ENTER MAIDEN NAME)

12a. USUAL OCCUPATION (GIVE KIND OF WORK DONE DURING MOST OF WORKING LIFE, EVEN IF RETIRED)

12b. KIND OF BUSINESS OR INDUSTRY

13. EDUCATION – SPECIFY ONLY HIGHEST GRADE COMPLETED ELEMENTARY OR SECONDARY (0-12) COLLEGE (1-4 or 5+)

14. NAME OF FATHER

15. MAIDEN NAME OF MOTHER

16. WAS DECEDENT EVER IN U.S. ARMED FORCES? (specify Yes or No)

USUAL RESIDENCE

17a. USUAL RESIDENCE – STREET ADDRESS (street and number or location)

17b. INSIDE CITY CORPORATE LIMITS (specify YES or NO)

18. NAME & MAILING ADDRESS OF INFORMANT

17c. CITY OR TOWN

17d. COUNTY

17e. STATE

PLACE OF DEATH

19a. NAME OF HOSPITAL OR OTHER INSTITUTION WHERE DEATH OCCURRED (If not in either, give street address or location)

19b. CITY OR TOWN

19c. COUNTY

MEDICAL EXAMINER OR PHYSICIAN'S CERTIFICATION

20a. MEDICAL EXAMINER: *I hereby certify that death occurred at the hour, date & place stated above, from the causes stated below based on examination of the body and/or investigation of the circumstances.*

20b. PHYSICIAN OR MEDICAL EXAMINER SIGNATURE

20c. DATE SIGNED

20d. PHYSICIAN: *I hereby certify that death occurred at the hour, date and place stated above from the causes stated below, and that I attended the decedent and I last saw the decedent alive on month day year*

20e. CERTIFIER'S NAME AND TITLE (Type or Print)

20f. PHYSICIAN'S UTAH LICENSE NO.

21. IF NOT CERTIFIED BY MEDICAL EXAMINER, WAS DEATH REPORTED TO HIM? (yes or no) IF YES, DATE & HOUR REPORTED (24 hour clock)

20g. CERTIFIER'S ADDRESS

FUNERAL DIRECTOR AND LOCAL REGISTRAR

22a. Burial, entombment, cremation or removal (specify)

22b. DATE

23. SIGNATURE OF FUNERAL DIRECTOR

24. FUNERAL HOME – NAME AND ADDRESS

25. NAME AND LOCATION OF CEMETERY OR CREMATORY

26. LOCAL REGISTRAR – SIGNATURE

27. Date accepted for registration by local registrar

MEDICAL AND HEALTH DATA

CAUSE OF DEATH

28. PART I. DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE FOR A, B, AND C)

IMMEDIATE CAUSE (A)

CONDITIONS IF ANY WHICH GAVE RISE TO THE IMMEDIATE CAUSE (A) STATING THE UNDERLYING CAUSE LAST

DUE TO, OR AS A CONSEQUENCE OF (B)

DUE TO, OR AS A CONSEQUENCE OF (C)

APPROXIMATE INTERVAL BETWEEN ONSET AND DEATH

29. PART II. OTHER SIGNIFICANT CONDITIONS – CONTRIBUTING TO DEATH, BUT NOT RELATED TO THE IMMEDIATE CAUSE GIVEN IN PART I

30a. AUTOPSY (specify YES or NO)

30b. [illegible] (specify YES or NO)

INJURY INFORMATION

31. Accident, suicide, homicide, undetermined or pending investigation (specify)

32a. DATE OF INJURY (month day year)

32b. TIME OF INJURY (24 HOUR CLOCK)

33. INJURY AT WORK (specify YES or NO)

34. PLACE OF INJURY [illegible]

35a. LOCATION OF INJURY (STREET AND NUMBER OR LOCATION AND CITY OR TOWN)

35b. Distance from place of injury to usual residence (item 17) MILES

36. [illegible]

37. [illegible]

38. DESCRIBE HOW INJURY OCCURRED (ENTER SEQUENCE OF EVENTS WHICH RESULTED IN INJURY. NATURE OF INJURY SHOULD BE ENTERED IN ITEM 28)

39. If motor vehicle accident, specify if decedent was driver, passenger or pedestrian

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FIGURE C-3

UTAH STATE DIVISION OF HEALTH

CERTIFICATE OF FETAL DEATH

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TYPE OR PRINT IN **PERMANENT INK** SEE HANDBOOK FOR INSTRUCTIONS

LOCAL FILE NUMBER — STATE FILE NUMBER

FETUS

FETUS — NAME (FIRST, MIDDLE, LAST) 1 — DATE OF DELIVERY (MONTH, DAY, YEAR) 2a — HOUR 2b M

SEX 3 — THIS DELIVERY — SINGLE, TWIN, TRIPLET, ETC (SPECIFY) 4a — IF NOT SINGLE DELIVERY BORN FIRST, SECOND, THIRD, ETC (SPECIFY) 4b — COUNTY OF DELIVERY 5a

CITY, TOWN, OR LOCATION OF DELIVERY 5b — INSIDE CITY LIMITS (SPECIFY YES OR NO) 5c — HOSPITAL — NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER) 5d

MOTHER

MOTHER — MAIDEN NAME (FIRST, MIDDLE, LAST) 6a — AGE (AT TIME OF THIS DELIVERY) 6b — STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY) 6c

RESIDENCE — STATE 7a — COUNTY 7b — CITY, TOWN, OR LOCATION 7c — INSIDE CITY LIMITS (SPECIFY YES OR NO) 7d — STREET AND NUMBER 7e

FATHER

FATHER — NAME (FIRST, MIDDLE, LAST) 8a — AGE (AT TIME OF THIS DELIVERY) 8b — STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY) 8c

CAUSE

9 PART I. FETAL DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c)) — SPECIFY FETAL OR MATERNAL

FETAL OR MATERNAL CONDITION DIRECTLY CAUSING FETAL DEATH — IMMEDIATE CAUSE (a)

FETAL AND/OR MATERNAL CONDITIONS, IF ANY, GIVING RISE TO THE IMMEDIATE CAUSE (a), STATING THE UNDERLYING CAUSE LAST — DUE TO, OR AS A CONSEQUENCE OF (b); DUE TO, OR AS A CONSEQUENCE OF (c)

PART II. OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER — CONDITIONS CONTRIBUTING TO FETAL DEATH BUT NOT RELATED TO CAUSE GIVEN IN PART I(c) 10 — FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN (SPECIFY) 10 — AUTOPSY (SPECIFY YES OR NO) 11a — IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH 11b

CERTIFIER

(CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE STATED ABOVE AND THE FETUS WAS BORN DEAD) 12a SIGNATURE — DATE SIGNED (MONTH, DAY, YEAR) 12b — ATTENDANT — M.D., D.O., MIDWIFE, OTHER (SPECIFY) 12c

CERTIFIER — MAILING ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP) 12d — AUTHORIZED OFFICIAL (IF DELIVERY NOT ATTENDED BY PHYSICIAN) 13 SIGNATURE

BURIAL

BURIAL, CREMATION, OR REMOVAL (SPECIFY) 14a — CEMETERY OR CREMATORY — NAME 14b — LOCATION (CITY OR TOWN, STATE) 14c

DATE (MONTH, DAY, YEAR) 14d — FUNERAL HOME — NAME AND ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP) 15a

FUNERAL DIRECTOR — SIGNATURE 15b — REGISTRAR — SIGNATURE 16a — DATE RECEIVED BY LOCAL REGISTRAR (MONTH, DAY, YEAR) 16b

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FATHER

RACE — FATHER (WHITE, NEGRO, AMERICAN INDIAN, ETC (SPECIFY)) 17 — EDUCATION — SPECIFY HIGHEST GRADE COMPLETED (ELEMENTARY 0 1 2 3 4 5 6 7 8; HIGH SCHOOL 1 2 3 4; COLLEGE 1 2 3 4 5 6 7 8) 18 — PREVIOUS DELIVERIES — HOW MANY OTHER CHILDREN: ARE NOW LIVING 19a; WERE BORN ALIVE — NOW DEAD 19b; WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION) 19c

MOTHER

RACE — MOTHER (WHITE, NEGRO, AMERICAN INDIAN, ETC (SPECIFY)) 20 — EDUCATION — SPECIFY HIGHEST GRADE COMPLETED (ELEMENTARY 0 1 2 3 4 5 6 7 8; HIGH SCHOOL 1 2 3 4; COLLEGE 1 2 3 4 5 6 7 8) 21 — DATE OF LAST LIVE BIRTH (MONTH, DAY, YEAR) 22a — DATE OF LAST FETAL DEATH (MONTH, DAY, YEAR) 22b

MULTIPLE BIRTHS: ENTER STATE FILE NUMBER FOR MATES — DATE LAST NORMAL MENSES BEGAN (MONTH, DAY, YEAR) 23 — MONTH OF PREGNANCY PRENATAL CARE BEGAN (1ST, 2D, ETC (SPECIFY)) 24a — PRENATAL VISITS TOTAL NUMBER (IF NONE, SO STATE) 24b — LEGITIMATE (SPECIFY YES OR NO) 25 — BIRTH WEIGHT 26

LIVE BIRTHS: COMPLICATIONS RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE") 27 — BIRTH INJURIES TO FETUS (DESCRIBE OR WRITE "NONE") 28

FETAL DEATHS: COMPLICATIONS NOT RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE") 29 — CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS (DESCRIBE OR WRITE "NONE") 30

COMPLICATIONS OF LABOR (DESCRIBE OR WRITE "NONE") 31

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FIGURE C-4

fact, coupled with information from sample studies, indicates that the completeness of birth certificate registration now exceeds 99 percent. It is recognized that there is some under-registration of infants who die shortly after birth.

The registration of fetal deaths of more than 20 weeks gestation is required by statute. Many fetal deaths are not medically attended and frequently they may not be identified as fetal deaths, thus it is widely recognized that there is incomplete registration of fetal deaths. Because of this under-registration of fetal deaths the Utah data probably understates the size of this problem and the statistics about associated factors and causes of fetal deaths may be unreliable.

Death certificate registration is thought to be nearly 100 percent complete because a death certificate must be filed before disposition of the remains can be made. There may be some under-registration of infant deaths occurring in the first day of life.

Limitations of Small Numbers

All statistics are subject to chance variation. Such random variation in a large number of events has little effect on the data for the group, however, random variation in a small number of events may result in a startling change in the data for the group. For example, minor differences in the number of births or deaths in small populations or in the number of deaths from uncommon causes may result in large changes in these rates. Rates for areas of small population or for events with few occurrences should be interpreted with this limitation in mind.

Vital Statistics Rates and Ratios

Vital Statistics data provide better measures of health status when they are related to the size of the population (rates) and particularly to the age and sex components of the population (age and sex specific rates). During the intercensus years, the validity of vital statistics' rates depends upon the accuracy of population estimates. The State total population estimates used in this were prepared by the U.S. Bureau of the Census. The county population estimates were prepared by the Utah Population Work Committee. The estimates include the resident military and civilian populations.

For the most part, rates presented in this report are crude rates, i.e., the number of events per 1,000 total population. Crude rates are limited for purposes of making comparisons among geographic areas, and for changes over periods of time because they ignore characteristics of the population such as age and sex.

Intercensus population estimates by age have been made for 1970 and the present year. These estimates and the resulting age-specific rates are provisional.

Infant deaths include all deaths of persons under 1 year of age. Fetal deaths include all deaths of fetuses of 20 or more weeks gestation.

The infant and fetal death rates are respectively the number of infant and fetal deaths per 1,000 live births.

Maternal deaths include any death that results from complications of pregnancy, childbirth, and the puerperium. Because of the infrequency of maternal deaths in Utah they are usually expressed as absolute numbers only.

Cause of Death

Cause of death statistics are derived from the medical certification information required by law to be reported on the death or fetal death certificate by the attending physician or medical examiner. The medical certification item on certificates of death and fetal death has provisions for reporting three causes of death--immediate, intervening, and underlying, plus additional information related to the cause of death. The cause of death selected for coding and tabulating mortality statistics is the "underlying cause of death," which is generally defined as the disease or injury which initiated the sequence of morbid events leading directly to death.

Occasionally, death certificates are registered with the cause of death information incomplete, inconsistent, or equivocal, and additional information from the certifier is not available. In such cases, selection and modification rules are used to select the underlying cause of death for statistical purposes. Before 1949, a set of priority tables in the Manual of Joint Causes of Death served this function. Selection and modification rules and other rules and decisions which adapt the coding procedures to reporting practices in the United States are published by

the Public Health Service, National Center for Health Statistics, in annual editions of the Vital Statistics Instruction Manual. From 1955 to 1967, cause of death data in Utah was determined from the underlying cause coded by using the Seventh Revision International Classification of Diseases, along with the appropriate annual Vital Statistics instruction manuals of the Public Health Service, as of January 1, 1968, the Eighth Revision International Classification of Diseases was used in classifying the underlying cause of death on Utah death certificates. The Eighth Revision, published in 1968, adopted newer concepts of classification of diseases, with a reclassification of various diseases under new headings. As a result, comparability of various diseases from year to year may be seriously affected in examining vital statistics data. For example, fetal deaths are no longer listed in a separate statistical category. They are now included in the regular list of either "congenital anomalies" (740-759) or "certain causes of prenatal morbidity and mortality" (760-779). In another example, the classification of death due to "diseases of the circulatory system" has been substantially revised to give considerably greater emphasis to hypertension and its manisfestations. Additionally, acute myocardial infarction is differentiated from other forms of ischemic heart disease.

Geographic Bases

Birth and death data are presented by place of occurrence of the event or by place of usual residence of the individual. For deaths, "place of residence" is defined as the residence of the decedent. For births, "place of residence" for the child is defined as the usual residence of the mother.

Re-allocation of birth and death certificates to the state of residence has been virtually complete on a nationwide basis since 1955. This was made possible by a cooperative program among the states for exchange of copies of certificates of nonresident events.

It is considered to be meaningful for some purposes to tabulate accidental deaths by place of occurrence rather than by place of residence. Statistical tabulations of accidental deaths "by place of occurrence" refer to the place where the death occurred, and not the

place where the accident occurred. A hypothetical example may help to clarify the above explanation. Assume that an individual from Denver, Colorado is involved in a motor vehicle accident in Wendover, Nevada and required emergency aid of a special nature. The closest available facility is at the University Medical Center in Salt Lake City, Utah. After arriving at the hospital, the patient succumbs to conditions arising from the accident. In such a case, the "place of occurrence" for statistical purposes would be Salt Lake City, Utah, not Wendover, Nevada.

Total Live Births

In the process of preparing the reference tables for 1975, it was found that the procedure used for coding the number of "total live births" resulted in over-stating the number of "first births" by an estimated 8 to 12 percent. This coding procedure was changed in 1976 to reflect the recorded number of "first births." Because of this change the number of children ever born (total live births per woman) can not be compared directly to previous years' data of children ever born. Also, the distributions of birth order between 1976 and prior years' data are not comparable.